EUROPEAN UNIVERSITY OF LEFKE

DEPARTMENT OF CIVIL ENGINEERING

PROGRAMME HANDBOOK

2026

PROGRAM INFORMATION

Program Name and Degree Awarded

CIVIL ENGINEERING, Bachelor of Science

Duration of Studies

4 years

Total Credits / ECTS

147 / 240

Language of Instruction

ENGLISH

Mission and Vision

Mission

Our mission is to train highly qualified Civil Engineers who are needed by the public and private sectors, who are in line with the requirements of the age, who have the ability to learn and research independently, and who can produce creative solutions.

Vision

Our mission is to be a department that educates Civil Engineers who can use science and technology for the benefit of our country and humanity, who can adapt to changing world standards and innovations, who can think, question, research, have managerial skills and can compete in the international arena.

Program Objectives

Students who graduate from EUL's Civil Engineering Department are expected to:

EO1 : Be competitive candidates in the civil engineering field, capable of holding positions of employment in local, national and international companies; or be able to work in the public sector as a field engineer, construction site manager, supervisor, etc.; or be capable of establishing their own company for the purposes of offering, e.g., consultancy, auditing or management services

EO2: Provide practical solutions to problems by applying their knowledge of modelling and their ability to design, develop and implement in at least one of the key areas in civil engineering:

construction, construction materials, geotechnical engineering, transportation engineering and hydraulic engineering

EO3: Adopt lifelong learning as a core principle in their working life, keep up to date with the latest developments in their field and maintain a demonstrable commitment to continued professional development

EO4: Be able to successfully undertake postgraduate research work in order to make a positive contribution to the R&D requirements of industry.

Program Learning Outcomes

The Program Outcomes for the Civil Engineering Department at the European University of Lefke are listed below. Students graduating from the program should have:

i. Adequate knowledge in mathematics, science and engineering subjects pertaining to the **civil engineering** discipline; ability to use theoretical and applied knowledge to solve complex engineering problems.

ii. Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.

iii. Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.

iv. Ability to devise, select, and use modern techniques and tools needed for analyzing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively.

v. Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or **civil engineering** specific research questions.

vi. Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.

vii. Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.

viii. Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.

ix. Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.

x. Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.

xi. Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.

Curriculum

1st Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE119	INTRODUCTION TO PROFESSION	(2-0-0)0	2	Compulsory
COM111	CHEMISTRY	(3-0-0)3	4	Compulsory
COMP117	COMPUTING FOUNDATIONS	(3-1-0)4	6	Compulsory
ENG111	CHEMISTRY LAB	(2-0-0)1	2	Compulsory
ENG121	PHYSICS I LAB	(0-0-2)1	2	Compulsory
ENG131	PHYSICS I	(3-0-0)3	4	Compulsory
FLEXX1	FOREIGN LANGUAGE ELECTIVE I (ENGLISH)	(3-0-0)3	3	Elective
MATH101	CALCULUS I	(3-2-0)4	7	Compulsory
2nd Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE112	ENGINEERING DRAWING	(3-0-2)4	6	Compulsory
COM122	PHYSICS II	(3-0-0)3	5	Compulsory
ENG122	PHYSICS II LAB	(0-0-2)1	2	Compulsory
FLEXX2	FOREIGN LANGUAGE ELECTIVE II (ENGLISH)	(3-0-0)3	3	Elective
MATH109	LINEAR ALGEBRA	(3-0-0)3	5	Compulsory
MATH110	CALCULUS II	(3-2-0)4	7	Compulsory
COM108	HISTORY	(2-0-0)2	2	Compulsory
3rd Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE201	SURVEYING	(3-0-2)4	7	Compulsory
CE207	MATERIALS SCIENCE	(2-0-3)3	6	Compulsory
CE211	STATICS	(4-1-0)4	6	Compulsory
COM106	TURKISH	(2-0-0)2	2	Compulsory
LEUXX1	UNIVERSITY ELECTIVE I	(3-0-0)3	4	Elective
MATH201	ORDINARY DIFFERENTIAL EQUATIONS	(3-2-0)4	5	Compulsory
4th Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE202	STRENGTH OF MATERIALS	(4-1-0)4	6	Compulsory
CE206	DYNAMICS	(4-1-0)4	5	Compulsory
CE208	MATERIALS OF CONSTRUCTION	(2-0-2)3	5	Compulsory

LEUXX2	UNIVERSITY ELECTIVE II	(3-0-0)3	4	Elective
MATH224	ENGINEERING MATHS	(3-0-0)3	5	Compulsory
MATH226	PROBABILITY AND STATISTICS	(3-0-0)3	5	Compulsory
5th Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE300	SUMMER TRAINING I	(0-1-0)0	1	Compulsory
CE301	SOIL MECHANICS	(3-0-2)4	6	Compulsory
CE303	STRUCTURAL ANALYSIS I	(4-1-0)4	7	Compulsory
CE307	FLUID MECHANICS	(4-1-0)4	7	Compulsory
CE309	ENGINEERING ECONOMY	(3-0-0)3	5	Compulsory
XX1	TECHNICAL ELECTIVE I	(3-0-0)3	4	Elective
6th Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE302	TRANSPORTATION AND TRAFFIC ENGINEERING	(3-2-0)4	7	Compulsory
CE304	STRUCTURAL ANALYSIS II	(4-1-0)4	7	Compulsory
CE306	FOUNDATION ENGINEERING	(3-1-0)3	6	Compulsory
CE308	HYDROMECHANICS	(3-1-0)3	6	Compulsory
CEXX1	TECHNICAL ELECTIVE II	(3-0-0)3	4	Elective
7th Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
BUSN461	STRATEGIC PLANNNING AND MANAGEMENT	(3-0-0)3	5	Compulsory
CE402	SUMMER TRAINING II	(0-1-0)0	1	Compulsory
CE403	REINFORCED CONCRETE FUNDAMENTALS	(3-0-0)3	5	Compulsory
CE405	FUNDAMENTALS OF STEEL DESIGN	(3-1-0)3	5	Compulsory
CE415	CONSTRUCTION MANAGEMENT	(3-0-0)3	4	Compulsory
CE417	WATER RESOURCES ENGINEERING	(3-0-0)3	4	Compulsory
CE419	GRADUATION PROJECT I	(0-1-0)1	2	Compulsory
8th Semester				
Course Code	**Course Name**	**(T-A-L)C**	**ECTS**	**COURSE TYPE**
CE450	GRADUATION PROJECT II	(0-9-0)5	5	Compulsory
CEXX2	TECHNICAL ELECTIVE II	(3-0-0)3	4	Elective
CEXX3	TECHNICAL ELECTIVE III	(3-0-0)3	4	Elective
CEXX4	TECHNICAL ELECTIVE IV	(3-0-0)3	4	Elective
ENGG434	ENGINEERING ETHICS	(3-0-0)3	4	Compulsory

UNIVERSITY ELECTIVE LIST				
DERS KODU	**DERS ADI**	**(T-U-L)K**	**AKTS**	**DERS TÜRÜ**
CFE201	LEADERSHIP AND MANAGEMENT	(3-0-0)3	4	SEÇMELİ
CEXX2	TECHNICAL ELECTIVE II	(3-0-0)3	4	SEÇMELİ
TECHNICAL ELECTIVE LIST				
DERS KODU	**DERS ADI**	**(T-U-L)K**	**AKTS**	**DERS TÜRÜ**
CE472	ADVANCED MATERIALS OF CONSTRUCTION	(3-0-0)3	4	SEÇMELİ
CE429	ADMIXTURES FOR CONCRETE	(3-0-0)3	4	SEÇMELİ
CE442	ADVANCED REINFORCED CONCRETE DESIGN	(3-0-0)3	4	SEÇMELİ
CE465	CONSTRUCTION PROJECT SCHEDULING	(3-1-0)3	4	SEÇMELİ
CE471	ADVANCED CONCRETE TECHNOLOGY	(3-0-0)3	4	SEÇMELİ
CE426	HIGHWAY ENGINEERING	(3-0-0)3	4	SEÇMELİ
CE485	IRRIGATION AND DRAINAGE ENGINEERING	(3-0-0)3	4	SEÇMELİ
CE490	SAFE ROAD DESIGN	(3-0-0)3	4	SEÇMELİ
CE444	HIGHWAY MATERIALS	(3-0-0)3	4	SEÇMELİ

Laboratory and Equipment Capacity (if applicable)

1. 200 kN Capacity Fully Automatic Compressive Strength Testing Machine
2. 20 kN Capacity Fully Automatic Flexural Testing Machine
3. Steel Tensile Testing System
4. Low Frequency Fatigue and Creep Testing System
5. Soil Permeability Determination Testing Machine (Constant Head and Falling Head)
6. Rheometer for Fresh Concrete
7. Sound Insulation Testing System
8. Concrete Cover, Stirrup, and Rebar Diameter Determination Testing System
9. Rust Measurement Testing System
10. Three-Dimensional Concrete Tomography Testing System
11. Thermal Conductivity Testing System
12. Fully Automatic CBR-Marshall Testing System
13. Fully Automatic Pole Shear Testing System
14. Fully Automatic Three-Dimensional Compression Testing System (For CD, CU, UU Tests)
15. Soil Settlement Parameters Determination Testing System
16. UU Three-Dimensional Compression Determination Device
17. Uniaxial Compression Determination Device
18. Consolidation Test System
19. Standard and Modified Compression Test System
20. Viscometer
21. Liquid Limit Device
22. Cement Fineness Device
23. Borehole and CBR Molds
24. Curing System for Concrete and Cement Paste Samples
25. Shelby Molds for Collecting Undisturbed Soil Samples
26. Hobart Mixer
27. Porcelain Vessels
28. Plastic Limit Apparatus
29. Standard Glass Vessels of Various Volumes
30. Melting Pot for Sulfur Head

31. Bernoulli's Theorem Demonstration
32. Impact of a Jet
33. Orifice and FreeJet Flow
34. Energy Loss in Pipes
35. Flow Channel
36. Osborne Reynolds' Demonstration
37. Flowmeter Demonstration
38. Energy Loss in Bends
39. Free and Forced Vortices
40. Schmidt Hammer
41. Ultrasonic Testing Machine (Pundit)
42. Loading Unit
43. Caliper
44. Automatic Theodolite
45. Total Station
46. CL-2000 Chloride Field Test
47. Maturity Meter
48. Ultrasonic Testing System
49. Windsorprobe Testing System
50. GNNS (GPS) Measuring Device
51. Vicat Apparatus
52. Hand Compression Apparatus
53. Cube, Cylinder, and Beam Moulds of Various Volumes
54. Desiccator
55. Flow Table Apparatus
56. Specific Gravity Determination Test Apparatus
57. Sintering Furnace (1450 °C)
58. Standard Sieve Sets (For Coarse and Fine Aggregate Samples) and Sieve Shakers
59. Concrete Air Content Determination Apparatus
60. Vibration Table
61. Jolting Table

62. Aggregate Impact Strength Test Apparatus
63. Aggregate Crushing Test Apparatus
64. Slump Cone
65. Hydrometer Test System
66. 300 kN Capacity Fully Automatic Compressive Strength Device
67. Grinding Apparatus
68. Standard Oven
69. Los Angeles Abrasion Device
70. Compaction Factor Device
71. Vebe Device
72. Concrete Permeability Determination Test System
73. Air Compressor
74. Standard Chemicals
75. Sample Extractor
76. Le Chatlier Mould
77. Steam Tank
78. Core Drilling Device
79. Tool Box
80. Pure Water Production Device

Career Opportunities

Civil engineering program graduates have a wide range of employment opportunities. Graduates can work in public institutions and organizations, private sector construction companies, and project and consulting firms. They can also play active roles in construction site management, project design, building inspection, and infrastructure and superstructure projects. Those wishing to pursue an academic career can pursue master's and doctoral programs to advance in research and education. With developing technology, there are also opportunities to specialize in areas such as sustainable building design, smart cities, and new material technologies.

Contact Information

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EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS
2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COM101	English 1		3	0	0	3	3	
Prerequisite		Prerequisite to						

Course Lecturer	Mehmet Mert	Office Hours Schedule	Monday 09:00-11:00
E-mail	mmert@eul.edu.tr		
Phone		Office / Room No	AS232
Teaching Assistant(s)	-	Phone	2684
E-mail	-	Office / Room No	-

Course Objectives	This course introduces the main grammatical structures to the students and helps them to develop their listening, speaking , reading and writing skills as well as vocabulary and pronunciation. The students are provided with clear rules and example sentences. The lessons contain high frequency vocabulary that the students are likely to come across during their studies and future their future careers
Learning Outcomes	1.The students will be able to understand and use English structures accurately to express themselves. 2. The students will be able to learn and use the vocabulary learnt during the lessons.
Textbooks and/or	1 English File, Intermediate Plus, Student's Book, Christina Latham- Koenig, et al, Oxford University Press, Third Edition 2 English File, Pre-Intermediate Plus, Workbook, Christina Latham- Koenig, et al, Oxford University Press, Third Edition

WEEK	Date	TOPICS	Reference no to learning outcomes
Week 1		Pronouns	1.2
Week 2		Making adjectives	1.2
Week 3		Adjectives	1.2
Week 4		Adjective Suffixes	1.2
Week 5		Modals of deduction	1.2
Week 6		Holidays	1.2
Week 7		Possessives, shops, services	1.2
Week 8		Past Simple / Continuous, used to, stages of life	1.2
Week 9		**MID TERMS**	
Week 10		Passives	1.2
Week 11		kinds of films	1.2
Week 12		future forms, rubbish and recycling	1.2
Week 13		1st-2nd conditionals, applying for a job-course	1.2
Week 14		Present Perfect Simple, TV (phrasal verbs)	1.2
Week 15		Present Perfect Continuous, Types of TV prog.	1.2
Week 16		**FINALS**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1		60	100
Semester Evaluation				
Midterm(s)	1		40	100.0
Quiz(zes)				
Project(s)				
Online Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	
Theoretical Hours	13	13x3	39
Midterm	1	1x1	1
Self Study for midterm	1	39x1	39
Final Exam	1	1x1	1
Self Study for final	1	10x1	10
		TOTAL :	90
		Recommended ECTS Credit (Total Hours / 25) :	90/30=3

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 FALL SEMESTER

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COMN111	CHEMISTRY	Compulsory	3	0	0	3	4	Thursday 12:00-14:50 (HK000)
Prerequisite		Prerequisite to						

Course Lecturer	Assist. Prof. Dr. Devrim ÖZDAL	Office Hours Schedule	Tuesday 11:00-12:00
E-mail	devrimozdal@eul.edu.tr		
Phone	2516	Office / Room No	Faculty of Engineering / Room No : AS307
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	The aim of this course is to describe students how substances interact with one another. Students will be informed on how the atom is made up, how atoms come together to make molecules and how molecules can interact, chemical compounds, chemical bonds, chemical equations and reactions, aqueous solutions, periodic table, gases, the electronic structure of the atom.
Objectives	The aim of this course is to deliver basic general chemistry content and introduce students to the chemistry laboratory. Matter, atomic structure, periodic table, mole concept. stoichiometry, aqueous solutions, and gasses.
Learning Outcomes	On successful completion of the course, the student will be able to: (1) understand and carryout calculations on properties of Substances (2) learn atomic structure and naming of compuounds (3) learn mole concept, balancing equations, stoichiometry (4) carry out calculations on aqueous reactions (5) learn ideal gasses, gas mixtures and gas properties (6) understand electronic configurations and covalent bonding (7) understand concentration units of solutions, principles of solubility and colligative properties of nonelectrolytes

Programme Outcome Relations			
PO1: 5	PO7: 1	(1) Strongly disagree;	
PO2: 3	PO8: 1	(2) Disagree;	
PO3: 1	PO9: 1	(3) Neither agree nor disagree;	
PO4: 1	PO10: 1	(4) Agree;	
PO5: 1	PO11: 1	(5) Strongly agree.	
PO6: 1			

Textbooks and/or References		
	1	William L. Masterton, Cecile N. Hurley, Chemistry Principles and Reactions, 8th edition, Cengage Learning, 2016.
	2	Nivaldo J. Tro, Chemistry: A Molecular Approach, 5th ed., Pearson Education Limited, 2021.
	3	K.M.Whitten, R.E.Davis, M.L.Pech, G.G.Stanley, Chemistry, 10th ed., Brooks/Cole CENGAGE Learning, 2014.

WEEK	Date	TOPICS	Reference No - Section
Week 1	22-26.09.2025	Matter and Measurements; Classifications of matters and Units in measurements	1: 1.1-1.2
Week 2	29.09.-03.10.2025	Matter and Measurements; Properties of Substances and Density	1: 1.3
Week 3	06-10.10.2025	Atoms, Molecules and Ions; Atom theories and Subatomic particles	1: 2.1-2.4
Week 4	13-17.10.2025	Atoms, Molecules and Ions; Properties of Periodic table and Structural formulas	1: 2.4, 2.6
Week 5	20-24.10.2025	Atoms, Molecules and Ions; Naming of Ionic and Covalent Compounds	1: 2.7
Week 6	27-31.10.2025	Mass Relations in Chemistry: Stoichiometry ; Moles, mole-gram conversions and Reactions	1: 3.1-3.3
Week 7	03-07.11.2025	Mass Relations in Chemistry; Writing and Balancing Chemical equations, Limiting Reactant, Theoretical and Experimental Yield, Percent Yield	1: 3.3-3.7
Week 8	***10-14.11.2025***	***Midterm Exam Week***	
Week 9	17-21.11.2025	Mass Relations in Chemistry; Writing and Balancing Chemical equations, Limiting Reactant, Theoretical and Experimental Yield, Percent Yield	1: 3.3-3.7
Week 10	24-28.11.2025	Reactions in Aqueous Solutions	1:4.1-4.7
Week 11	01-05.12.2025	Gases; Measurements of gases, Ideal gas law, Gas mixtures	1: 5.1-5.7
Week 12	08-12.12.2025	Electronic Structure and Periodic Table	1: 6.1-6.7
Week 13	15-19.12.2025	Solutions; Concentration Units, Properties of Solubility	1: 10.1-10.7
Week 14	22-26.12.2025	Revision	All Topics
Week 15	29-31.12.2025	*Public Holiday*	
Week 16	05.09.01.2026	***Final Exam Week***	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03-11.01.2026	50	
Semester Evaluation			50	
Midterm(s)	1	08-16.11.2025	50	100,0
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory works				
Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	13	39	Homework		
TLH self study	13	39	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	2	Final exam (FE)	1	2
ME preparation self study	1	12	FE preparation self study	1	16
			TOTAL :		110
			Recommended ECTS Credit (Total Hours / 25) :		4,4

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course	Course Name	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
ENGG131	PHYSICS I/ PHYSICS			Compulsory	3	0	0	3	4	Wednesday 09.00-12.00
Prerequisite				Prerequisite to						

Course Lecturer	Assist. Prof Dr Nemika CELLATOĞLU	Office Hours Schedule	TUESDAY 16.00-17.00
E-mail	ncellatoglu@eul.edu.tr		
Phone	3501	Office / Room No	AS306
Teaching Assistant		Phone	
E-mail		Office / Room No	3501

Catalogue Descriptions	This course aims to introduce the fundamental concepts of physics necessary for engineering science and to provide essential background for engineering students. The course provides deep understanding about kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion.
Objectives	The main aim of this course is to introduce the fundamental concepts of motion necessary for engineering science and to provide essential background for engineering students.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) an ability to translate, interpret and extrapolate important scientific models and laws governing classical mechanics, (2) an ability to demonstrate critical thinking and problem solving skills in the area of physics, (3) an ability to perform mathematical modeling of basic problems and establish their analytic solutions in field of classical mechanics, (4) an understanding of the connection of course material to real life applications.

Programme Outcome Relations			
	PO1: 5 **PO2: 4** **PO3: 1** **PO4: 1** **PO5: 1** **PO6: 1**	**PO7: 1** **PO8: 1** **PO9: 1** **PO10: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Serway, Physics for Scientists and Engineers with Modern Physics, 9/e
	2	Halliday and Resnick, Fundamentals of Physics
	3	Sears and Freedman, University Physics, 10/e
	4	Gettys, Keller and Skove, Physics: Classical and Modern

WEEK	Date	TOPICS	Reference No - Section
Week 1	24.09.2025	Introduction	Ref. 1 : 1.1,1.2,1.3,1.4,1.5,1.6
Week 2	01.10.2025	Kinematics In One Dimension: Distance, displacement, average velocity, average acceleration, instan. Velocity and acceleration	Ref. 1 :2.1, 2.2,2.3,2.4
Week 3	08.10.2025	Kinematics in One Dimension with constant acceleration: , motion on x-axis and Properties of motion on y-axis	Ref. 1 : 2.5, 2.6, 2.7, 2.8
Week 4	15.10.2025	Vectors: Unit Vector Representation and Matematical Operations with Vectors	Ref. 1 :3.1, 3.2, 3.3, 3.4
Week 5	22.10.2025	Kinematics in Two Dimension: Properties of Projectile Motion	Ref. 1 :4.1, 4.2, 4.3, 4.4, 4.5, 4.6
Week 6	5.11.2025	Laws of Motion: First, Second and Third Law of Newton	Ref 1: 5.1, 5.2, 5.3, 5.4, 5.5
Week 7	12.10.2025	Applications of Newton's Laws	Ref 1: 5.6, 5.7, 5.8
Week 8	19.10.2025	Dynamics of Circular Motion	
Week 9	25.10-16.11.2025	Midterm(s)	Ref 1: 6.1 , 6.2, 6.3, 6.4
Week 10	26.11.2025	Work and Energy	Ref 1: 7.1, 7.2, 7.3 7.4, 7.5, 7.6, 7.7, 7
Week 11	03.12.2025	Definition of Mechanical Energy, Potential Energy, Kinetic Energy and Conservation of Mechanical Energy	Ref 1:8.1, 8.2, 8.3, 8.4, 8.5
Week 12	10.12.2025	Linear Momentum and Collisions: Definition of Linear Momentum, Conservation of Momentum in Collisions (Elastic, inelastic collisions)	Ref1: 9.1- 9.8
Week 13	17.12.2025	Properties of Rotational Motion: Kinematics of Rotational Motion	Ref1 : 10.1-10.9
Week 14	24.12.2025	Rotational Kinetic Energy, Torque and Angular Mometum	Ref1 :11.1- 11.4
Week 15	31.12.2025	REVISON	
Week-16/17		**FINALS**	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		40	40.0
	Semester Evaluation			60	
	Midterm(s)	2		60	60.0
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory work(s)				
	Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	13	39	Homework		
TLH self study	13	50	Project		
Quiz (Q)	2	2	Presentation		
Q preparation self study	1	4	Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	2	Final exam (FE)	1	1.5
ME preparation self study	1	10	FE preparation self study	1	12
				TOTAL :	120.5
				Recommended ECTS Credit (Total Hours / 30) :	4.02

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Computer Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COMP/ENGG 117	Computing Foundations		3	0	2	4	7	Wednesday: 14:00 - 16:50 AS 115
Prerequisite	None	Prerequisite to				None		

Course Lecturer	Assist Prof. Dr. Ersin ÇAĞLAR	Office Hours Schedule	Monday & Friday 14:00 - 16:00
E-mail	ecaglar@eul.edu.tr		
Phone		Office / Room No	Rauf Raif Denktaş Building, AS NO:310
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room	-

Course Objectives	Introduction to general problem-solving concepts, algorithms and its applications. Computer terminology, units, and number systems. Steps in problem-solving. Problem solution, pseudocode, algorithms, flowcharts, data types, and control structures. History of computers and programming. A simple C program layout, syntax and rules. C language basics, native types, identifiers, declarations, variables, expressions, and assignments. Basic console input/output functions. Operators, unary, binary, mathematical, relational, equality and logical, precedence and associativity rules, type conversions and casting. Statements, flow of control. Sequential structure. Selective structure, if-else statement. Repetitive structure, while loop, do-while loop, break/continue statements. Tracing C code.
Learning Outcomes	On successful completion of the course, the student should: 1) Able to understand programming and computing concepts 2) Ability to understand and solve problems 3) Develop an ability to develop algorithms for simple problems 4) Ability to trace programs 5) Knowledge of basics C programming language

Textbooks and/or References		
	1	Maureen Sprankle and Jim Hubbard, "Problem Solving and Programming Concepts", Pearson Prentice Hall, 2012, ISBN-13: 978-0-13-249264-5
	2	Jeri R. Hanly and Elliot B. Koffman, "Problem Solving and Program Design in C", Pearson Prentice Hall, 2013, ISBN-13: 978-0-13-293649-1
	3	Pierce, B. C. (Ed.). (2024). Advanced topics in types and programming languages. MIT press.

WEEK	Date	TOPICS	Reference No - Section
Week 1	2/2/2026	Introduction	1;1 1;2 1;3
Week 2	2/9/2026	Notion of data and types, memory representations of primitive data, objectives of the course	1;3 2;2 2;3 2;4
Week 3	2/16/2026	The concept of abstract data type, types of data structures; Revision of pointer/structure concepts of C	2;5 3;2 3;3
Week 4	2/23/2026	The stack structure: properties, operations, types of problems solved, array-based implementations	2;3 3;2
Week 5	3/2/2026	The stack structure: infix/prefix/postfix conversion and evaluation algorithms	3;4 3;5
Week 6	3/9/2026	Basic details of pseudo codes and algorithms	1;5 1;6 3;5
Week 7	3/16/2026	Introduction of flowcharts	3;3 3;4 3;5
Week 8	3/23/2026	pseudo codes, algorithms, flowcharts	3;6 3;7
Week 9	3/30/2026	Introduction to C programming	1;7 1;8
Week 10	4/6/2026	**Midterm(s)**	-
Week 11	4/13/2026	first C program, variables and statements	3;7 2;5
Week 12	4/20/2026	first C program, variables and statements	3;7 2;5
Week 13	4/27/2026	Data types, operators, details of printf and scanf formatting instructions	3;7 2;5
Week 14	5/4/2026	Conditional keywords, if, else, else if, switch/case/break.	1;5,6
Week 15	5/11/2026	Loops using for, while, and do/while	1;5,6
Week 16	5/18/2026	**Final Exam**	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	5/18/2026	50	
Semester Evaluation				
Midterm(s)	1	4/6/2026	30	
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory	6		20	
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	84	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)	6	20			
L preparation work	6	20			
Midterm exam (ME)	1	2	Final exam (FE)	1	2
ME preparation self study	1	20	FE preparation self study	1	20
			TOTAL :		209
			Recommended ECTS Credit (Total Hours / 30) :		6.97

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS		Weekly Time Schedule
CE/CVEN 119	Introduction to Profession		1	0		0	2		Tuesday (12.00-12.50)
Prerequisite	-	Prerequisite to				-			

Course Lecturer	*Lecturer Hasan Dilek*	Office Hours Schedule	Tuesday 11.00 - 12.50
E-mail	hdilek-lau@eul.edu.tr		
Phone		Office / Room No	*AS301*
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	An orientation course to provide counsel to the student on the major areas of Civil Engineering, including information on the typical activity of civil engineers, integrated course sequences and content, and an introduction to the faculty. Historical, aesthetic and environmental considerations in civil engineering. Professional engineering practice and codes of ethics.
Course Objectives	To understand the fundamental concepts of civil engineering. To understand the technical, professional and social responsibilities of the civil engineer. To knowledge the recent technologies and needs in civil engineering.
Learning Outcomes	At the end of this course, the student will be able to: 1 Understand the importance of civil engineering. 2 Define sub-disciplines of civil engineering and their responsibilities. 3 Acknowledge the recent construction techniques, entrepreneurship and sustainable solutions in the construction industry.

Program Outcomes			
PO1: 1 PO2: 1 PO3: 1 PO4: 1 PO5: 3 PO6a: 3 PO6b: 1	PO7: 1 PO8: 5 PO9: 5 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.	

Textbooks and/or References		
	1	Spence, W.P., 2006, "Construction Materials, Methods and Techniques", 2nd ed., Thomson Delmar Learning
	2	McCuen, R.H., Ezzell, E.Z. and Wong. M., 2011, "Fundamentals of Civil Engineering", CRC Press
	3	Hansen, K.L. and Zenobia, K.E., 2011, "Civil Engineer`s Handbook of Professional Practice, John Wiley and Sons

WEEK	Date	TOPICS		Reference No - Section
Week 1	24/09/2025	Introduction Lecture		-
Week 2	01/10/2025	Introduction to Civil Engineering		1: 1; 2: 1
Week 3	08/10/2025	Subfields of Civil Engineering		1: 3; 2: 2; 3: 2
Week 4	15/10/2025	Subfields of Civil Engineering (cont'd)		1: 3; 2: 2; 3: 2
Week 5	22/10/2025	International System of Units		3; 4
Week 6	29/10/2025	How to write a technical report (Midterm week)		1: 6; 2: 7
Week 7	05/11/2025	How to write a technical report (Midterm week)		1: 6; 2: 7
Week 8	08-16/11/2025	MIDTERM EXAM WEEK		-
Week 9	19/11/2025	Term Project Brief		-
Week 10	26/11/2025	How to write a technical report - Cont'd (Midterm week)		1: 6; 2: 7
Week 11	03/12/2025	Risk Management		1: Part 1
Week 12	10/12/2025	Sustainability in Construction		1: 7; 2: 9
Week 13	17/12/2025	Code Ethics for Engineering		1; 9
Week 14	24/12/2025	Entrepreneunship in Engineering		3; 6
Week 15	31/12/2025	Entrepreneunship in Engineering		3; 6
Week 16	03-11.01.2026	FINAL WEEK		

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)		Weight in Semester Evaluation (%)
Final Exam		03-11.01.2026			
Semester Evaluation					100
Midterm(s)		08-16/11/2025			
Quiz(zes)					
Project(s)	1	TBA	100		100
Homework(s)					
Laboratory					

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Student Workload Hours
Theoretical lecturing hours	14	1	14	Homework			
TLH self study	14	1	14	Project	1	25	25
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)				Final exam (FE)			
ME preparation self study				FE preparation self study			
					TOTAL =		53.0
					Recommended ECTS Credit (Total Hours / 30) ≈		2

EUROPEAN UNIVERSITY OF LEFKE- Faculty of Engineering

SYLLABUS

2025-2026 FALL Semester

Course Code	Course Name	Course Type	Weekly Course T	A	L	Credits	ECTS	Weekly Time Schedule
ENGG111	Chemistry Laboratory		0	0	2	1	2	Tuesday 09:00-11:50 AS114 AND CHEMISTRY LAB
Prerequisite		Prerequisite to						

Course Lecturer	Asst. Prof. Dr. Devrim ÖZDAL	Office Hours Schedule	Tuesday 14.00-15.00
E-mail	devrimozdal@eul.edu.tr		
Phone	2516	Office / Room No	AS307
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Descriptions	This course has been specially designed as a intensive introduction to the techniques of experimental chemistry. Molarity, Solution preparation, Calculation of denisty, distillation, Seperation methods, precipitation reaction, acid-base titration, thermochemisty.
Objectives	In the chemistry laboratory, students will examine, test and establish for themselves the chemical principles studied in class and textbooks; will collect experimental data; and will use their reasoning to draw logical conclusions about the meaning of these data.
Learning Outcomes	LO1: Students will develop skills in collecting and managing data in order to express their results in a precise and reliable quantitative or qualitative form on lab. reports, LO2: Students will be use basic apparatus, apply experimental methodologies in the chemistry laboratory setting and Demonstrate the basic laboratory safety concepts, LO3: To gain ability to calculate concentration of solution and learn preparation of solution experimentally, LO4: To understand seperation techniques and apply in laboratory, LO5: an understanding thermodynamics laws, enthalpy and free energy concepts, LO6: To observe precipitation reaction experimentally and calculate percentage yield of experiments, LO7: Defining acids and bases and conduct acid-base titration experiment, LO8: To calculate density of materials.

Program Outcome Relations			
	PO1: 5	PO7: 1	(1) Strongly disagree;
	PO2: 1	PO8: 5	(2) Disagree;
	PO3: 1	PO9: 3	(3) Neither agree nor disagree;
	PO4: 1	PO10: 1	(4) Agree;
	PO5: 3	PO11: 1	(5) Strongly agree.
	PO6: 1		

Textbooks and/or References		
	1	European University of Lefke Chemistry Lab. Manual, 2017.
	2	William L. Masterton, Cecile N. Hurley, Chemistry Principles and Reactions, 8th edition Cengage Learning, 2016

WEEK	Date	TOPICS	Reference No - Section
Week 1	22-26.09.2025	Introduction and General Definitons	Ref. 1
Week 2	29.09.-02.10.2025	Laboratory Safety Rules and Laboratory Equipments	Ref. 1
Week 3	06-10.10.2025	Theoretical Background and Report Writing	Ref. 1
Week 4	13-17.10.2025	Experiment 1. Density (FIRST GROUPS)	Ref. 1
Week 5	20-24.10.2025	Experiment 1. Density (SECOND GROUPS)	Ref. 1
Week 6	27-31.10.2025	Experiment 2. Distillation (FIRST GROUPS)	Ref. 1
Week 7	03-07.11.2025	Experiment 2. Distillation (SECOND GROUPS)	Ref. 1
Week 8	10-14.11.2025	**MIDTERM EXAM WEEK**	Ref. 1
Week 9	17-21.11.2025	Experiment 3. Solution Preparation (FIRST GROUPS)	Ref. 1
Week 10	24-28.11.2025	Experiment 3. Solution Preparation (SECOND GROUPS)	Ref. 1
Week 11	01-05.12.2025	Experiment 4. Acid-Base Titration (ALL GROUPS)	Ref. 1
Week 12	08-12.12.2025	Experiment 5. Precipitation Reaction (FIRST GROUPS)	Ref. 1
Week 13	15-19.12.2025	Experiment 5. Precipitation Reaction (SECOND GROUPS)	Ref. 1
Week 14	22-26.12.2025	Experiment 6. Thermochemistry (ALL GROUPS)	Ref. 1
Week 15	29-31.12.2025	Make-Up Experiment Week	Ref. 1
Week 16	05.09.01.2026	**FINAL EXAM WEEK**	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	03-11.01.2026	40	
	Semester Evaluation			50	
	Midterm Exam	1	08-16.11.2025	30	60,0
	Quiz(zes)	0		0	0,0
	Project(s)	0		0	0,0
	Homework	0		0	0,0
	Laboratory	0		0	0,0
	Report Writing	6	After each Experiment	30	60,0

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours			Applied Hours		
Midterm	1	8,0	Final	1	10,0
Quiz			Project		
Laboratory	6	12,0	Homework		
Atelier			Seminar		
Field Study			Presentation		
Report Writing	6	18,0	Self Study		
			TOTAL :	48	
			Recommended ECTS Credit (Total Hours / 25) :		2

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
ENG121	PHYSICS I LABORATORY	Compulsory	0	0	1	1	2	Tuesday 12.00-13.00
Prerequisite		Prerequisite to						

Course Lecturer	Mehmet BURHAN	Office Hours Schedule	Thursday 09:00-11:00
E-mail	mburhan@eul.edu.tr		
Phone	2515	Office / Room No	AS307
Teaching Assistant	Aboubakar Gulam	Phone	
E-mail		Office / Room No	

Catalogue Descriptions	This course is directed to COMN121-Physics. The aim ocourse is providing a medium for students to see the experimental applications of kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion. The course supports students to validate the underlying theory through experiment and observation.
Objectives	The aim of the course is providing the understanding of the fundamental concepts/laws in physics by setting up laboratory equipment safely and efficiently and planning and carrying out experimental procedures.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1)nature of science and scientific method (2) the ability to apply knowledge/skills to real world settings by identifying possible sources of error and implementing techniques that enhance precision. (3) an ability to demonstrate critical thinking and problem solving skills in the area of physics, (4) teamwork skills/ ability to collaborate by working in groups on a laboratory experiment. (5) written communication ability by reporting verbally the experimental data, results, and assessment of reliability.

Programme Outcome Relations			
	PO1: 5 PO2: 4 PO3: 1 PO4: 1 PO5: 4 PO6: 1	PO7: 1 PO8: 4 PO9: 4 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	Serway, Physics for Scientists and Engineers with Modern Physics, 9/e
	2	PHYSICS I LABORATORY BOOKLET

WEEK	Date	TOPICS	Reference No - Section
Week 1	04..02.2026	INTRODUCTION	Ref. 1 : 1.1
Week 2	11..02.2026	NATURE OF SCIENCE	Ref. 1 :1.2
Week 3	18..02.2026	SCIENTIFIC METHOD	Ref. 1 : 1.3
Week 4	25..02.2026	SI UNITS, UNIT CONVERSIONS, DIMENSION ANALYSIS	Ref. 1 :1.4
Week 5	04..03.2026	MEASUREMENTS, PRESCION AND ACCURACY, CALCULATION OF MEAN	Ref. 1 :1.5
Week 6	11..03.2026	CALCULATION OF STANDARD DEVIATION, TYPES OF ERRORS IN EXPERIMENTS, PERSENTAGE ERROR	Ref 2 : 1.1
Week 7	18..03.2026	IMPORTANCE OF LINE GRAPHS IN EXPERIMENTS, CALCULATION OF SLOPE, USING SLOPE FOR DETERMINATION OF EXPERIMENTAL VALUES	Ref2: 1.2
Week 8	25..03.2026	EXPERIMENT 1 : MEASUREMENT AND CALCULATION	Ref 2 : 2
Week 9	01.04.2026	EXPERIMENT 2 : FREE FALL	Ref 2 : 3
Week 10		MIDTERMS	
Week 11	15.04.2026	EXPERIMENT 3 RESULTANT FORCE	Ref 2 : 4
Week 12	22.04.2026	EXPERIMENT 4: LAWS OF NEWTON	Ref 2 : 5
Week 13	29.04.2026	EXPERIMENT 5: HOOKE'S LAW	Ref 2 : 6
Week 14	06.05.2025	EXPERIMENTS MAKE-UP	
Week-15/16		FINALS	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		30	
	Semester Evaluation			70	
	Midterm(s)	1		20	29.0
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory work(s)	6		50	71.0
	Attendance				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	6	6	Homework		
TLH self study			Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)	6	6	Tutorial		
L preparation work	6	18			
Midterm exam (ME)	1	1	Final exam (FE)	1	1
ME preparation self study	1	3	FE preparation self study	1	5
				TOTAL :	40
				Recommended ECTS Credit (Total Hours / 30) :	1.33

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
MATH101	Calculus I	Compulsory	3	2	0	4	7	Wednesday: 14:00-16:50
Prerequisite		Prerequisite to				MATH 110		

Course Lecturer	Prof. Dr. Yönal Kırsal	Office Hours Schedule	Monday 9:30-11:30 Wednesday 9:30-11:30
E-mail	ykirsal@eul.edu.tr		
Phone	2502	Office / Room No	AS-313
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	Fundamentals of calculus and its applications for engineers. The conceptual and visual representation of limits, continuity, differentiability, and tangent line approximations for functions at a point. Applying the power rule, product rule, quotient rule and chain rule to functions explicitly and implicitly for finding derivatives. Applying the fundamental theorem of calculus to evaluate definite integrals. Performing accurately improper integrals, definite and indefinite integration, integration by parts, substitution, and inverse trigonometric substitution.
Objectives	This course aims to build fundamentals of the limits, differential and integral calculus of functions and its applications for engineers.
Learning Outcomes	On successful completion of the course, the student should: (1) learn cartesian coordinates system, understand function evaluation, graph functions, recall composite functions, odd-even functions, domain-range concept of the functions, and trigonometric functions; (2) understand conceptual and visual representation of limits, continuity, differentiability, and tangent line approximations for functions at a point; (3) apply the power rule, product rule, quotient rule and the chain rule to functions explicitly and implicitly for finding derivatives; (4) apply Fundamental Theorem of calculus to evaluate definite integrals, and calculate the area between the curves; (5) perform accurately substitution method, improper integrals, integration by parts, and inverse substitution.

Programme Outcome Relations			
	PO1: 5 PO2: 5 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	Calculus: A Complete Course 8th Edition (2013), Robert A. Adams, Christopher Essex
	2	Calculus 8th Edition (2016), James Stewart
	3	

WEEK	Date	TOPICS	Reference No - Section
Week 1		Axis scales, Increments and Distances, Graphs, Straight lines, Equations of lines, Equation of Circles, The domain convention, Graphs of functions, Even and Odd functions, Sums, Diffrences, Products, Quotients and Multiplications of the functions	1:P1, 1:P2, 1:P3, 1:P4
Week 2		Composite functions, Piecewise defined functions, Roots and Factors of Quadratic polynomials, Some useful identities for trigonometric functions, Some special angles, The addition formulas, Other trigonometric functions	1:P5, 1:P6, 1:P7
Week 3		One-Sided Limits, Rules for Calculating Limits, The Squeeze Theorem, Limits at Infinity	1:1.2, 1:1.3
Week 4		Limits at Infinity for Rational Functions, Infinite Limits, Continuity at a Point, Continuity on an Interval, There are lots of continuous functions	1:1.3, 1:1.4
Week 5		Tangent lines and their slopes, The Definition of the Derivative, Sums and constant multiples, the product rule, the quotient rule	1:2.1, 1:2.2, 1:2.3
Week 6		The chain rule, Derivatives of trigonometric functions	1:2.4, 1:2.5
Week 7		The chain rule, Derivatives of trigonometric functions	1:2.4, 1:2.5
Week 8		**Midterms**	-
Week 9		Higher-order derivates, Implicit differentiation, L'Hospital's Rule, Extreme Values	1:2.6, 1:4.3, 1:4.4
Week 10		Antiderivatives, The Indefinite Integral, The Definite Integral	1:2.10, 1:5.3, 1:5.4
Week 11		The method of substitution, Trigonometric Integral	1:5.6
Week 12		Areas between two curves using Integrals	1:5.7
Week 13		Integration by Parts	1:6.1
Week 14		Integrals of Rational Functions, Integrals for Linear and Quadratic Denominators, Integrals for Partial Fractions	1:6.2
Week-15		Inverse Substitutions, Improper Integrals	1:6.3, 1:6.5
Week-16		**Finals**	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	3-11/01/2025	40	
	Semester Evaluation			60	
	Midterm(s)	1	8-16/11/2024	35	58,3
	Quiz(zes)	1		25	41,7
	Project(s)				
	Homework(s)				
	Laboratory works				
	Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	84	Project		
Quiz (Q)	1	7	Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial	14	28
L preparation work					
Midterm exam (ME)	2	4	Final exam (FE)	1	2
ME preparation self study	2	16	FE preparation self study	1	28
			TOTAL :		211
			Recommended ECTS Credit (Total Hours / 30) :		7,03

EUROPEAN UNIVERSITY OF LEFKE

COMN 108 - HISTORY

SYLLABUS

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COM108/COMN108	HISTORY (For International Students)	Compulsory	2	0	0	2	2	
Prerequisite		Prerequisite to						

Course Lecturer	Assoc. Prof. Dr. Elnur AĞAYEV	Office Hours Schedule	Monday: 09:00-12:00
E-mail	eagayev@eul.edu.tr		
Phone		Office / Room No	
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	The course provides a detailed exposure on the history of the construction of the Turkish Republic under the light of Kemal Atatürk's principles this course is designed for Turkish speaking students. COM108 is designed for non-Turkish speaking foreign students. The aim of the course is to introduce a brief history of Turkish Republic and Cyprus. Social, economic and political aspects and effects of Western Civilization on Turkey and Cyprus. Relations with Middle East.
Objectives	In this course the students who have been studying at different departments of our university will learn how the Ottoman Empire collapsed and a new Turkish Republic was found in the early 20 th. century. At the same time the students will learn the Eastern Question, Armenian Question and Cyprus Question which were created by different policy powers in the historical period. By the end of the semester the students will be able to understand why Mustafa Kemal is an important figure in the history of Turkey and the world. Besides, they will learn the Turkish Revolution and the estabilishment philosphy of the Turkish Republic and the principles of Mustafa Kemal
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: 1. Analyzes the developments after World War I and the attitude of Mustafa Kemal and his friends in the face of these developments. 2. Understanding the Turkish Foreign Policy of the Atatürk Era. 3. They will have basic information about the political developments in Turkey and the world during and after the Second World War. 4. To have general information about the History of Cyprus.

Textbooks and/or References	1	Lewis, Bernard, **The Emergence of Modern Turkey**, London, 1967.
	2	Kinross, Patrick, **Atatürk The Rebirth of a Nation**, A Phoenix Giant Paperback Publishing, London, 1998.
	3	Luke, Harry, **Cyprus Under The Turks**
	4	COM108 History lecture notes/slides
	5	Denktash, Rauf R, **The Cyprus Triangle**, The Office of the Turkish Republic of Northern Cyprus, New York, 1988.

WEEK	Date	TOPICS	Reference No - Section
Week 1	04/02/2026	Introduction of the Bibliography	
Week 2	11/02/2026	The First World War and the Ottoman Empire	
Week 3	18/02/2026	The First World War and the Ottoman Empire	
Week 4	25/02/2026	The Turkish War of Independence and Turkish Victory (First Phase)	
Week 5	04/03/2026	The Turkish War of Independence and Turkish Victory (First Phase)	
Week 6	11/03/2026	The Turkish War of Independence and Turkish Victory (Second Phase)	
Week 7	18/03/2026	Lausanne Agreement and Proclamation of the Republic of Turkey	
Week 8	25/03/2026	The Strategical Importance of Cyprus	
Week 9	01/04/2026	Cyprus Under the Ottoman Rule	
Week 10	4-12/04/2026	**Midterm Exam**	
Week 11	15/04/2026	Cyprus Under the Ottoman Rule	
Week 12	22/04/2026	National Struggle of Turkish Cypriots	
Week 13	29/04/2026	National Struggle of Turkish Cypriots	
Week 14	06/05/2026	Cyprus Question	
Week 15	13/05/2026	Cyprus Question	
Week 16	16-25/05/2026	Cyprus Question	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		60	50.0
	Semester Evaluation				
	Midterm(s)	1		40	50.0
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory work(s)				
	Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	28	Homework		
TLH self study	7	21	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	1	Final exam (FE)	1	1
ME preparation self study	2	6	FE preparation self study	2	6
			TOTAL :		63
			Recommended ECTS Credit (Total Hours / 30) :		2.00

EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS
2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COM110	English 2		3	0		3	3	
Prerequisite		Prerequisite to						

Course Lecturer	Mehmet Mert	Office Hours Schedule	Monday 09:00-11:00
E-mail	mmert@eul.edu.tr		
Phone		Office / Room No	AS232
Teaching Assistant(s)	-	Phone	2684
E-mail	-	Office / Room No	-

Course Objectives	This course introduces the main grammatical structures to the students and helps them to develop their listening, speaking , reading and writing skills as well as vocabulary and pronunciation. The students are provided with clear rules and example sentences. The lessons contain high frequency vocabulary that the students are likely to come across during their studies and future their future careers
Learning Outcomes	1.The students will be able to understand and use English structures accurately to express themselves. 2. The students will be able to learn and use the vocabulary learnt during the lessons.

Textbooks and/or		
	1	English File, Intermediate Plus, Student's Book, Christina Latham- Koenig, et al, Oxford University Press, Third Edition
	2	English File, Intermediate Plus, Workbook, Christina Latham- Koenig, et al, Oxford University Press, Third Edition

WEEK	Date	TOPICS	Reference no to learning outcomes
Week 1	04/02/2026	Obligation, Necessity	1.2
Week 2	11/02/2026	Prohibition, advice, DIY	1.2
Week 3	18/02/2026	can, could, be able to	1.2
Week 4	25/02/2026	vocabulary, things on the table	1.2
Week 5	04/03/2026	Phrasal verbs	1.2
Week 6	11/03/2026	verb patterns	1.2
Week 7	18/03/2026	have something done	1.2
Week 8	25/03/2026	at the hairdresser's	1.2
Week 9	01/04/2026	Passive	
Week 10	4-12/04/2026	**MID TERMS**	1.2
Week 11	15/04/2026	Reported Speech	1.2
Week 12	22/04/2026	Past Perfect	1.2
Week 13	29/04/2026	be,do,have	1.2
Week 14	06/05/2026	Auxiliary + main verbs	1.2
Week 15	13/05/2026	Question tags	1.2
Week 16	16-25/05/2026	**FINALS**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1		60	100
Semester Evaluation				
Midterm(s)	1		40	100.0
Quiz(zes)				
Project(s)				
Online Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** | Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	
Theoretical Hours	13	13x3	39
Midterm	1	1x1	1
Self Study for midterm	1	39x1	39
Final Exam	1	1x1	1
Self Study for final	1	10x1	10
		TOTAL :	90
		Recommended ECTS Credit (Total Hours / 25) :	90/30=3

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
COMN122	PHYSICS II	Compulsory	3	0	0	3	5	Mondays 12.00-14.50 (ASA100)
Prerequisite		Prerequisite to						

Course Lecturer	Assist. Prof. Dr. Semih OĞUZCAN	Office Hours Schedule	Monday 10.00-11.50 /Tuesday 13.00-14.50 /Friday 14.00-14.50
E-mail	soguzcan@eul.edu.tr		
Phone		Office / Room No	AS310
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	This course aims to introduce fundamental concepts of physics for engineering science and to provide essential background for engineering students. The course provides deep understanding of thermodynamics, electricity and magnetism. Also, the course aims to show the students the engineering applications of the course material.
Objectives	The main aim of this course is to introduce the fundamental concepts of thermodynamics, electricity and magnetism necessary for engineering science and to provide essential background for engineering students.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) An ability to translate, interpret and extrapolate important scientific models and laws governing thermodynamics, (2) An ability to translate, interpret and extrapolate important scientific models and laws governing electricity (3) An ability to translate, interpret and extrapolate important scientific models and laws governingelectricitymagnetism. (4)An ability to demonstrate critical thinking and problem solving skills in the area of physics (5) An ability to perform mathematical modeling of basic problems and establish their analytic solutions in field of thermodynamics, electric and magnetism

Programme Outcome Relations			
	PO1: 5 PO2: 5 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	Serway, Physics for Scientists and Engineers with Modern Physics, 9/e
	2	Halliday and Resnick, Fundamentals of Physics
	3	Sears and Freedman, University Physics, 10/e
	4	Gettys, Keller and Skove, Physics: Classical and Modern

WEEK	Date	TOPICS	Reference No - Section
Week 1	02/02/2026	Introduction & Temperature and Thermal Expansion of Solids and Liquids, Macroscopic Description of Ideal Gas	1:19.1,19.2,19.3,19.4,19.5
Week 2	09/02/2026	The First Law of Thermodynamics	1:20.1,20.2,20.3,20.4,20.5,20.6,20.7
Week 3	16/02/2026	The Kinetic Theory of Gases	1:21.1,21.2,21.3,21.4,21.5
Week 4	23/02/2026	Heat Engines,Entropy and Second Law of Thermodynamics	1:22.1,22.2,22.3,22.4,22.6,22.7
Week 5	02/03/2026	Electric Force and Electric Field, Coloumb's Law for point charges	1:23.1,23.2,23.3,23.4,23.5,23.6
Week 6	09/03/2026	Electric Field of Continuous Uniform Charge distributions and applications of Gauss Law	1:24.1, 24.2,24.3, 24.4
Week 7/8/9/10	14-12/03-04/2026	MIDTERM	
Week 11	13/04/2026	Electric Potential Energy, Electric Potential and derivation of Electric Field from Electric Potential	1:25.1,25.2,25.3,25.4
Week 12	20/04/2026	Magnetic Fields, Magnetic Force on a point charge and a current carring wire	1:29.1,29.2,29.3,29.4,29.5
Week 13	27/04/2026	Sources of Magnetic Fields, Magnetic Field crated by point charges and current carring wires	1:30.1,30.2,30.3
Week 14	04/05/2026	Gauss Law in magnetism and Magnetism in Matter	1:30.5,30.6
Week 15	11/05/2026	Faraday's Law and Induced Current	1:31.1,31.2,31.3,31.4, 31.4,31.5
Week-16/17	16-25/05/2026	FINAL	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	16-25/05/2026	50	50.0
	Semester Evaluation			50	
	Midterm(s)	1	14-12/03-04/2026	40	40.0
	Quiz(zes)	1	27/04/2026	10	10.0
	Project(s)				
	Homework(s)				
	Laboratory work(s)				
	Attendance				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	13	39	Homework		
TLH self study	13	50	Project		
Quiz (Q)	1	2	Presentation		
Q preparation self study	1	10	Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	2	Final exam (FE)	1	2
ME preparation self study	1	25	FE preparation self study	1	25
				TOTAL :	155
				Recommended ECTS Credit (Total Hours / 30) :	5.17

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN112	Engineering Drawing	Compulsory	3	0	2	4	6	Friday - 09:00 - 11:50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Aslı Bardak	Office Hours Schedule	Wednesday 11.00-12.50 Thursday 11:00-12:50
E-mail	abardak@eul.edu.tr		
Phone		Office / Room No	AS304
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-
Catalogue Description			
Course Objectives	To introduce students to simple principles in engineering drawing and general drawing and design communication, enable students to implement their rofessional skills in graphics, drafting and design, introduce the students the fundamentals of CAD and engineering applications.		
Learning Outcomes	At the end of this course student will be able to; 1.An ability to draw technical figures using drawing instruments. 2. An understanding of geometric construction, drawing of tangents to circle arcs and drawing of circle tangent to straight lines or other circles. 3. An understanding of orthographic drawing, drawing objects by using first or third 4.An ability to use AutoCAD; to draw lines, curves and objects, to create text, create hatch pattern, dimensioning and detail drawings of 2-D engineered objects, to plot and print a drawing.		

Program Outcomes			
	PO1: 5 **PO2: 3** **PO3: 5** **PO4: 5** **PO5: 1** **PO6a: 1** **PO6b: 1**	**PO7: 1** **PO8: 1** **PO9: 1** **PO10a: 1** **PO10b: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Shah, M.B. & Rana, B.C. (2007) "Engineering Drawing", 3rd. Ed., 2007
	2	Madsen D.A., Shumaker T.M., Turpin J.L. and Stark C., "Engineering Drawing and Design", 2nd Ed, 1996.
	3	Yasim, N. (2013) "Introduction to AutoCAD 2014 for Civil Engineering

WEEK	Date	TOPICS	Reference No - Section
Week 1	06/02/2026	Introduction to Engineering Drawing	1:3.2
Week 2	13/02/2026	Dimensioning & Scaling	1,2: 1,1
Week 3	20/02/2026	Geometric Construction	2:1.8
Week 4	27/02/2026	Geometric Construction	2:1.8
Week 5	06/03/2026	Orthographic View	2:1.9
Week 6	13/03/2026	Orthographic View	2:1.9
Week 7	20/03/2026	Orthographic View	2:1.10
Week 8	27/03/2026	AutoCAD - getting started+Drawing tools, setting	
Week 9	03/04/2026	AutoCAD - Dimensioning/Layering+Title box/Editing and Organizing Drawings	3:3.1
Week 10	4-12/04/2026	Midterm(s)	3:4.3
Week 11	17/04/2026	AutoCAD - Modifying and scaling	3:4.4
Week 12	24/04/2026	AutoCAD - Modifying and scaling	3:4.5
Week 13	01/05/2026	AutoCAD - Sections drawing	3:4.6
Week 14	08/05/2026	AutoCAD - Ground floor drawing details	3:4.8
Week 15	15/05/2026	AutoCAD - Revision	3:4.9
Week 16	16-25/05/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/05/2026	40	
Semester Evaluation				50
Midterm(s)	1	04/12/04/2026	30	60
Quiz(zes)				
Project(s)	1	TBA	20	40
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours	14	4	56	Homework			
TLH self study	14	6	84	Project	1	25	25
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	20	20	FE preparation	1	20	20
						TOTAL :	**209**
						Recommended ECTS Credit (Total Hours / 30) :	**7**

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Spring Term

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
ENG122	Physics-II Laboratory	Compulsory	1	0	0	1	2	Thursday 12:00-14:00
Prerequisite		Prerequisite to						

Course Lecturer	Assoc. Prof. Dr. Ahmet Yaşlı	Office Hours Schedule	Thursday: 10:00-11:00
E-mail	ayasli@eul.edu.tr		
Phone	2525	Office / Room No	AS 314
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	This course is directed with COM122-Physics II. The aim of course is providing a medium for students to see the experimental applications of thermodynamics, electricity and magnetism. The course supports students to validate the underlying theory through experiment and observation
Objectives	The main aim of this course is to introduce students with experiments in static and current electricity and magnetism, and optics which are chosen to illustrate the experimental foundations of physics presented in the lecture courses.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) Conduct experimental investigations of simple electric, magnetic and thermodynamic phenomena. (2) Carry out measurements utilizing appropriate techniques and safety practices. (3) Practice record keeping of experimental work and data graphing. (4) Analyze data using simple statistics and compare the results with the relevant theory (5)Write a lab report including a summary explaining the theoretical background and major experimental achievements and findings.

Programme Outcome Relations			
PO1: 5 PO2: 5 PO3: 1 PO4: 2 PO5: 3 PO6a: 1 1	PO6b:	PO7: 2 PO8: 5 PO9: 3 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	Serway, Physics for Scientists and Engineers with Modern Physics, 9/e
	2	PHYSICS II LABORATORY BOOKLET
	3	

WEEK	Date	TOPICS	Reference No - Section
Week 1	02-06/02/26	Introduction to Fundamentals of Physical Experiments	Ref. 1 : 1.1. 1.2
Week 2	09-13/02/26	Experiment-1 General Information about Laboratory Gr1	
Week 3	16-120/02/26	Experiment-1 General Information about Laboratory Gr2	
Week 4	23-27/02/26	Experiment-2 Ohm's Law, Series and Parallel Combination of Resistors Gr1	Ref 2 : 1.1
Week 5	02-06/03/26	Experiment-2 Ohm's Law, Series and Parallel Combination of Resistors Gr2	Ref 2 : 1.1
Week 6	09-13/03/26	Experiment-3 Power - Equipotential and Electric Field Lines Gr1	Ref 2 : 1.2
Week 7	16-20/03/26	Experiment-3 Power - Equipotential and Electric Field Lines Gr2	Ref 2 : 1.2
Week 8	23-27/03/26	Experiment-4 Magnetic Field - Charging and Discharging a Capacitor Gr1	Ref 2 : 1.3
Week 9	30-3/03-04/26	Experiment-4 Magnetic Field - Charging and Discharging a Capacitor Gr2	Ref 2 : 1.3
Week 10	06-10/04/26	Experiment-5 Magnetic Flug Detection Gr1	Ref 2 : 1.4
Week 11	13-17/04/26	Experiment-5 Magnetic Flug Detection Gr2	Ref 2 : 1.4
Week 12	20-24/04/26	Experiment-6 Lenz's and Faraday's Laws Gr1	Ref 2 : 1.5
Week 13	27-01/04-05/26	Experiment-6 Lenz's and Faraday's Laws Gr2	Ref 2 : 1.5
Week 14	04-08/05/26	Makeup Gr1	
Week 15	11-15/05/26	Makeup Gr2	
Week 16	18-22/05/26	Finals	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		50	50.0
	Semester Evaluation			50	
	Midterm(s)	1		20	40.0
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory work(s)	6		30	60.0
	Attendance				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)			Homework		
TLH self study			Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)	9	18	Tutorial		
L preparation work	9	18			
Midterm exam (ME)	1	1	Final exam (FE)	1	1
ME preparation self study	1	6	FE preparation self study	1	8
				TOTAL :	52
				Recommended ECTS Credit (Total Hours / 30) :	1.73

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
MATH104	Linear Algebra	Compulsory	3	0	0	3	5	Monday 09:00-11:50
Prerequisite		Prerequisite to						

Course Lecturer	Hasan Dilek	Office Hours Schedule	
E-mail	hdilek-lau@eul.edu.tr		
Phone	-	Office / Room No	AS-301
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	Systems of linear equations: equivalent systems, elementary operations, triangular and echelon forms, Gaussian elimination, echelon matrices, row canonical form, homogeneous systems of linear equations. Matrices: matrix addition and scalar multiplication, matrix multiplication, transpose of a matrix, matrices and systems of linear equations, square matrices, diagonal and trace, identity matrix, invertible matrices, special types of square matrices, elementary matrices and applications. Vector spaces: subspaces, linear combinations, linear spans, linear dependence and independence, basis and dimension, linear equations and vector spaces. Inner product spaces: Cauchy-Schwarz inequality, orthogonality, Gram-Schmidt orthogonalization process. Determinants: evaluations of determinants, properties of determinants, minors and cofactors, classical adjoints, Cramer's rule. Eigenvalues and eigenvectors: characteristic polynomial, Cayley-Hamilton theorem, diagonalizing matrices.
Objectives	To understand several important concepts in linear algebra, including systems of linear equations and their solutions; matrices and their properties; determinants and their properties; vector spaces; linear independence of vectors; subspaces, bases, and dimensions of vector spaces; inner product spaces; and eigenvalues.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) systems of linear equations and various methods for solving them, (2) matrices, matrix operations, and related concepts and problems, (3) basic concepts of linear algebra such as vector spaces, subspaces, linear independence, and basis and dimension, (4) orthogonality and inner product spaces, (5) calculating eigenvalues and eigenvectors, and diagonalizing matrices.

Programme Outcome Relations			
	PO1: 5 **PO2: 1** **PO3: 1** **PO4: 1** **PO5: 1** **PO6: 1**	**PO7: 1** **PO8: 1** **PO9: 1** **PO10: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Seymour Lipschutz, Theory and Problems of Linear Algebra, 2nd ed., Shaum's Outline Series, McGraw-Hill, 1991.
	2	Gilbert Strang, Introduction to Linear Algebra, 5th ed., Wellesley - Cambridge Press, 2016.
	3	

WEEK	Date	TOPICS	Reference No - Section
Week 1	2/2/2026	Linear equations, solutions, linear equations in one/two unknown, Gaussian elimination algorithm	1: 1.1, 1.2, 1.3
Week 2	2/9/2026	System of linear equations, equivalent systems, elementary operations, systems in triangular/echelon form	1: 1.4, 1.5, 1.6
Week 3	2/16/2026	System of linear equations and matrices, homogeneous systems, basis for the general solution	1: 1.7, 1.8, 1.9, 1.10
Week 4	2/23/2026	Vectors in Rn, operations on vectors, vectors and linear equations, dot (scalar) product, norm of a vector	1: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6
Week 5	3/2/2026	Matrices, operations on matrices, transpose of a matrix, matrices and systems of linear equations	1: 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7
Week 6	3/9/2026	Square matrices, diagonal and trace, identity matrix, powers of matrices, polynomials in matrices	1: 4.1, 4.2, 4.3, 4.4
Week 7	3/16/2026	Invertible (nonsingular) matrices, special types of square matrices, elementary matrices and applications	1: 4.5, 4.6, 4.8, 4.9
Week 8	3/23/2026	Vector spaces, examples of vector spaces, subspaces, linear combinations and spans, rowspace of a matrix	1: 5.1, 5.2, 5.3, 5.4
Week 9	3/30/2026	Linear (in)dependence, basis and dimension, rank of a matrix, linear equations and vector spaces	1: 5.6, 5.7, 5.8
Week 10	4/6/2026	**Mid - Term**	-
Week 11	4/13/2026	Inner product spaces, orthogonal sets and bases, orthogonality, Gram-Schmidt orthogonalization process	1: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6
Week 12	4/20/2026	Determinants, determinants of orders one, two, and three, properties of determinants	1: 7.1, 7.2, 7.3, 7.6
Week 13	4/27/2026	Minors and cofactors, evaluation of determinants, classical adjoints, finding inverses, Cramer's rule	1: 7.7, 7.8, 7.9
Week 14	5/4/2026	Characteristic polynomial, Cayley-Hamilton theorem, eigenvalues and eigenvectors, diagonalizable matrices	1: 8.1, 8.2, 8.3, 8.4, 8.5
Week 15	5/11/2026	Review	-
Week 16	16-25.06.26	**Finals**	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/05/26	50	
Semester Evaluation			50	
Midterm(s)	1	4-12/04/26	50	100.0
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory works				
Attendance				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	70	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	1	Final exam (FE)	1	1
ME preparation self study	1	15	FE preparation self study	1	20
			TOTAL :		149

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 SPRING Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
MATH110	Calculus II	Compulsory	3	2	0	4	7	WED:9.00-12.00
Prerequisite	MATH101	Prerequisite to				MATH224		

Course Lecturer	Yrd. Doç. Dr. Feride S. Tabak	Office Hours Schedule	
E-mail	ftabak@eul.edu.tr		
Phone		Office / Room No	AS304
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	Techniques of integration, integration by parts, trigonometric substitution, integration of rational functions, integration of trigonometric integrals. Application of integrals, areas between curves, volume, volumes by slicing, volumes by cylindrical shells, arc length, area of a surface of revolution, moments and centre of mass. Parametric equations, curves defined by parametric equations, calculus with parametric equations, derivation, area and arc length calculations. Polar coordinates, plotting with polar coordinates, derivation and integration with polar coordinates. Sequences, series, integral tests and estimates of sum.
Course Objectives	The purpose of this course is to introduce students to more advanced topics in calculus. Evaluation of integrals, application areas of integrals, parametric equations, polar coordinates and infinite sequences and series are discussed.
Learning Outcomes	On successful completion of the course, the student will be able to: (1) evaluate an integral by the method of substitution; (2) use integrals to calculate areas between curves, volumes, work, and average value of a function; (3) evaluate integrals, using the techniques of integration by parts, using trigonometric identities and trigonometric substitution, and using partial fractions; (4) evaluate the two types of improper integrals; (5) use integrals to find arc length and area of a surface of revolution; (6) use integrals in applications to physics and engineering; (7) describe curves in parametric form and polar coordinates; (8) determine whether or not a sequence of real numbers converges; (9) test a series for convergence or divergence, using the integral, ratio, root, and comparison tests.

Programme Outcome Relations			
	PO1: 5 PO2: 5 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	James Stewart, Calculus, 8th Ed. Cengage, 2015 (Textbook)
	2	Robert A. Adams, Christopher Essex, Calculus: A Complete Course, 9th Ed., Pearson Education Inc., 2017. (Reference)
	3	George B. Thomas, Maurice D. Weir, Joel R. Hass, Thomas' Calculus, 14th Ed., Pearson Education Inc., 2017. (Reference)

WEEK	Date	TOPICS	Reference No - Section
Week 1	04/02/2026	Short review of the several topics of the prerequisite course; including integration techniques	1: 4.1-4.5
Week 2	11/02/2026	Application of Integration: Area between Curves, Volumes by disk method	1: 5.1,5.2
Week 3	18/02/2026	Application of Integration: Volumes by cylindirical Shell Method	1: 5.3-5.5
Week 4	25/02/2026	Techniques of Integration: Integration by Parts, Trigonometric Integrals, Trigonometric Substitution	1: 7.1-7.3
Week 5	04/03/2026	Techniques of Integration: Integration of rational functions, Integration Strategy, Improper Integrals	1: 7.4,7.5,7.8
Week 6	11/03/2026	Further Applications of Integration: Arc Length, Area of Surface of Revolution	1: 8.1
Week 7	18/03/2026	Further Applications of Integration: Arc Length, Area of Surface of Revolution	1: 8.2
Week 8	25/03/2026	Parametric Equations: Parametric Curves, Calculus with Parametric Curves	1: 10.1,10.2
Week 9	01/04/2026	Polar Coordinates: Definition, Areas and Lengths in Polar Coordinates	1: 10.3,10.4
Week 10	08/04/2026	MIDTERMS	
Week 11	15/04/2026	Infinite Sequences and Series: Sequences, Series, Integral Test Estimates of Sum, Comparison Tests	1: 11.1-11.4
Week 12	22/04/2026	Infinite Sequences and Series: Alternating Series, Absolute Convergence and Ration and Root Tests	1: 11.5,11.6
Week 13	29/04/2026	Partial Derivatives	1: 12.3
Week 14	06/05/2026	Partial Derivatives	1: 12.3
Week 15	13/05/2026	REVISION	
	20/05/2026	FINALS	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25 MAY	50	
Semester Evaluation			50	
Midterm(s)	2	4-12 APRIL	40	80.0
Quiz(zes)				
Project(s)				
Homework(s)	1		10	20.0
Laboratory works				
Attendance				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	84	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial	14	28
L preparation work					
Midterm exam (ME)	2	4	Final exam (FE)	1	2
ME preparation self study	2	16	FE preparation self study	1	28
				TOTAL :	204
				Recommended ECTS Credit (Total Hours / 30) :	7

EUROPEAN UNIVERSITY OF LEFKE

COM 106 - TURKISH

SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COM106	TURKISH (For International Students)		2	0	0	2	2	
Prerequisite		Prerequisite to						

Course Lecturer	Assoc. Prof. Dr. Elnur Ağayev	Office Hours Schedule	
E-mail	eagayev@eul.edu.tr		
Phone		Office / Room No	
Teaching Assistant(s)	-	Phone	
E-mail	-	Office / Room No	

Catalogue Descriptions	Basic structure and sound features of Turkish, Turkish pronunciation, vowel harmony, Turkish sentence structure, frequently used words in Turkish, types of dialogue, English-Turkish translation studies, Turkish text reading exercises.
Course Objectives	For students whose mother tongue is not Turkish, to make them comprehend the basic features of Turkish and to enable students to use Turkish at a basic level in oral and written form through frequently used vocabulary/dialogue studies.
Learning Outcomes	1. Comprehends the basic phonetic and structural features of Turkish 2. Applies the pronunciation features of Turkish 3. Acquires the basic vocabulary of Turkish 4. Develops Turkish text reading skills 5. Can use Turkish dialogues that are frequently used in daily life.

Textbooks and/or References		
	1	Birsen Çankaya ve diğerleri. Easy Turkish Course. İstanbul: Fono Yayınları, 2006.
	2	Kurtuluş Öztopçu. Elementary Turkish. İstanbul, 2006.
	3	COM106 Turkish lecture notes/slides
	4	Doğan Günay, Özdan Fidan ve diğerleri, Yabancılar İçin Türkçe Ders Kitabı + Alıştırma Kitabı, Papatya Yay., Ankara: 2013.

WEEK	Date	TOPICS	Reference No - Section
Week 1	02/02/2026	Turkish alphabet, translation exercises examples, Turkish sounds	
Week 2	09/02/2026	Turkish sentence structure, translation exercises, vocabulary examples	
Week 3	16/02/2026	Frequently used expressions, daily language sentences 1, translation exercises	
Week 4	23/02/2026	Days, colours, numbers, months, seasons, adjectives, Frequently used verbs 1	
Week 5	02/03/2026	Turkish alphabet and its pronunciation, this/that (bu/şu/o)	
Week 6	09/03/2026	Plural suffix (-lar/-ler), interrogative particle	
Week 7	16/03/2026	How many, how much (kaç?), ordinal numbers (kaçıncı?), Frequently used verbs 2	
Week 8	23/03/2026	There is/isn't (var/yok) cont., opposite adjectives, translation exercises, vocabulary	
Week 9	30/03/2026	Present continuous, daily routine, free time activities	
Week 10	4-12/04/2026	Midterm(s)	
Week 11	13/04/2026	Reading practice, want to (-mak istemek), my family, possesive suffixes	
Week 12	20/04/2026	Countries, nationalities, languages, away from my family, kendi+possesive pronoun	
Week 13	27/04/2026	Hours, special days, translation exercises, reading practice	
Week 14	04/05/2026	Our body, permission and request sentences, revision	
Week 15	11/05/2026	Our body, permission and request sentences, revision	
Week 16	16-25/05/2026	Final Exam	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	16-25/05/2026	60	
	Semester Evaluation				
	Midterm(s)	1	4-12/04/2026	40	
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory				
	Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	28.0	Applied Hours		
Midterm	1	1.0	Final	1	1.0
Midterm Study	2	6.0	Final Study	2	6.0
Laboratory			Homework		
Atelier			Seminar		
Field Study			Presentation		
Other			Self Study	7	21.0
			TOTAL :	63	2.0

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN 201	Surveying	Compulsory	3	0	2	4	7	Tuesday 09:00 - 11:50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Aslı Bardak	Office Hours Schedule	Tuesday 12:00-14:50
E-mail	abardak@eul.edu.tr		
Phone		Office / Room No	AS304
Teaching Assistant(s)	-	Phone	
E-mail	-	Office / Room No	-

Catalogue Description	Introduction. Understanding scale. Differential levelling. Rise and fall. Height of collimation method. Distance measurements. Total Stations and Theodolites. Traverse surveys. Angular measurements. Stadia survey. Area computations. Earthwork Quantities. Contour lines.
Course Objectives	The course is understanding topographic conditions and designing accordingly, an important design constraint in architecture. This course is an theoretical and practical introduction which assist students to understand and structure their design approaches on inclined terrains.
Learning Outcomes	At the end of this course student will be able to; 1.Simple mathematics (geometry and trigonometry) for surveying calculations 2.Get engaged with surveying tools, 3.Perform calculations for levelling, 4.Perform calculations for traversing, 5. Calculate area of irregular geometric shapes/lands

Program Outcomes			
	PO1: 5 **PO2: 5** **PO3: 4** **PO4: 1** **PO5: 4** **PO6a: 4** **PO6b: 1**	**PO7: 1** **PO8: 1** **PO9: 4** **PO10a: 1** **PO10b: 1** **PO11: 5**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Uren, J. & Price, B. (2010) Surveying for Engineers, 5th Ed. Palgrave Macmillan, UK.
	2	Schofield, W. & Breach, M. (2007) Engineering Surveying, 6th Ed., Elsevier Ltd.,Oxford.
	3	W. Irvine & F. Maclenan (2006) Surveying for Construction, 5th Ed., McGraw Hill Education

WEEK	Date	TOPICS	Reference No - Section
Week 1	19/09/2025	Introduction to Surveying	Reference to Learning Outcomes
Week 2	26/09/2025	Surveying Fundamentals	1:1, 2:5.1., 3:3
Week 3	03/10/2025	Levelling	1:1, 2:2.1, 3:1, 4:1
Week 4	10/10/2025	Levelling	1:1, 2:3, 3:4, 4:2
Week 5	17/10/2025	Distance measurement and tacheometry	1:1, 2:3, 3:4, 4:2
Week 6	24/10/2025	Field-works	1:10.6, 3:5, 4:8
Week 7	31/10/2025	Instrument Check	
Week 8	08-16/11/2025	Midterm(s)	1:10.8, 3:6
Week 9	18/11/2025	Field-works	
Week 10	25/11/2025	Introduction to Total Stations and Theodolites	
Week 11	02/12/2025	Traverse surveys and computations	1:4, 2:4., 4:3
Week 12	09/12/2025	Traverse surveys and computations	1:6, 2:6., 3:8, 4:6
Week 13	17/12/2025	Traverse surveys and computations	1:6, 2:6., 3:8, 4:6
Week 14	23/12/2025	Revision	1:7, 2:7., 3:9, 4:7
Week 15	10-19/01/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	10-19/01/2025	50	
Semester Evaluation				50
Midterm(s)	1	16-24/11/2025	40	50
Quiz(zes)				
Project(s)	1		10	10.0
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours	14	3	42	Homework			
TLH self study	14	6	84	Project	1	20	20
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)	2	4	8	Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	22	22	FE preparation	1	24	24
						TOTAL :	**204**
						Recommended ECTS Credit (Total Hours / 30) :	**7**

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN207	Materials Science	Compulsory	3	0	3	3	6	Thursday 09:00-12:00
Prerequisite	-	Prerequisite to	-					

Course Lecturer	Prof. Dr. Ertuğ Aydın	Office Hours Schedule	Tuesday 10:00-11:00 Wednesday 10:00-11:00 Friday 10:00-11:00
E-mail	eraydin@eul.edu.tr, eaertugaydin@gmail.com		
Phone	2505	Office / Room No	AS313
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Descriptions	Engineering requirements of materials; the structure of matter; atomic arrangements, structural imperfection, atom movements. Mechanical properties of materials. Concepts of force, stress, deformation and strain; elastic, and plastic behavior; viscosity; rheological models. Creep, brittleness, ductility, hardness, fatigue, toughness, resilience, and damping characteristics of materials
Course Objectives	The objective of this course is to provide information about materials science that aims at linking the structure and properties of materials on the basis of the principles of chemistry, physics and mechanics of materials. The selection of appropriate materials based on physical and mechanical properties.
Learning Outcomes	The student will be able to attain the following learning outcomes for this course: 1. Knowledge of computational materials science 2. the ability to integrate understanding of the scientific and engineering principles 3. Understand the stress-strain diagrams, fatigue and creep properties of materials 4. analyze and understand the deformation of materials under time and temperature

Programme Outcome Relations			
PO1: 4 PO2: 4 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 3 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.	

Textbooks and/or References		
	1	William D. Callister, Jr., An Introduction to Materials Science and Engineering, John Wiley & Sons, Inc., 2020
	2	Smith, W. F., Principles of Materials Science and Engineering, 2018
	3	Van Vlack, L. H., Materials Science for Engineers, 2018
	4	William D. Callister, Jr. & David G. Rethwisch, Callister's Materials Science and Engineering 10th Edition, 2020

WEEK	Date	TOPICS	Reference No - Section
Week 1	23.09.2025	Introduction	1:1.1,1.2,1.3
Week 2	30.09.2025	The structure of matter, Crystal structure	1:2.1,2.2,2.3
Week 3	09.10.2025	Crystal structure	1:2.4,2.5,2:2.1,2.2
Week 4	16.10.2025	Crystal structure	3:3.1,4:3.1,3.2
Week 5	23.10.2025	Amorphous structure	1:5.1,5.2, 5.3,4:4.1
Week 6	30.10.2025	Structural imperfections and atom movements	4:4.1,4.2
Week 7	06.11.2025	Concepts of force, stress, deformation and strain	4:4.3, 4.4
Week 8	8.11-16.11.2025	MIDTERM WEEK	-
Week 9	20.11.2025	Concepts of force, stress, deformation and strain	1:6.6,6.7
Week 10	27.11.2025	Selection of Materials	1:6.4,6.5
Week 11	04.12.2025	Mechanical properties of materials	1:7.1,7.2,7.3
Week 12	11.12.2025	Mechanical properties of materials	2:6.3,6.4,4:6.1,6.2
Week 13	18.12.2025	Fatigue	1:8.1,8.2
Week 14	25.12.2025	Creep	2:6.1,6.2
Week 15	30.12.2025	selected questions	-
Week 16	03.01-11.01.2026	FINAL EXAM WEEK	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03.01-11.01.2026	40	40
Semester Evaluation			60	
Midterm(s)	1	8.11-16.11.2025	25	25,0
Quiz(zes)	2	During Lecture hours	15	15,0
Project(s)				
Homework(s)	1		20	20,0
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	15	45,0		Applied Hours		
Midterm	1	12,0		Final	1	25,0
Quiz	2	10,0		Project		
Laboratory				Homework		
Atelier				Seminar		
Homework	1	12,0		Presentation		
other				Self Study	15	75,0
				TOTAL :		179,0
				Recommended ECTS Credit (Total Hours /30) :		5,97

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE/CVEN 211	*Statics*	Compulsory	*4*	*0*	-	*4*	6	*Tuesday 15.00-16.50 Thursday 15.00-16.50*
Prerequisite	-	**Prerequisite to**				*CE202*		

Course Lecturer	*Hasan Dilek*	**Office Hours Schedule**	*Tuesday 11.00-12.50*
E-mail	hdilek-lau@eul.edu.tr		
Phone	-	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	*Introduction to rigid body mechanics, equivalent force systems. Concepts of moment, couple, resultant. Equilibrium; Free body diagram; equations of equilibrium. Structural analysis; trusses, beams. Properties of surfaces. Area moment and centroids; moment and product of inertia; principal directions.*
Course Objectives	*The main purpose of this course is to provide the students with a clear and thorough knowledge of both the theory and the applications of engineering mechanics. Equilibrium of a particle and a rigid body will be investigated within this course, followed by discussions about structural analysis, internal forces, shear force and bending moment diagrams. Center of gravity and centroid will also be introduced to the students.*

Learning Outcomes

At the end of this course student will be able to:

1	recognize the basic assumptions in structural mechanics
2	understand the different loading systems
3	define different supports and reactions at supports
4	recognize the basics of static equilibriums
5	define the center of gravity of structures

Program Outcome Relations

PO1:	*5*	**PO7:**	*1*
PO2:	*5*	**PO8:**	*1*
PO3:	*3*	**PO9:**	*1*
PO4:	*3*	**PO10:**	*1*
PO5:	*1*	**PO11:**	*1*
PO6:	*1*		

(1) Strongly disagree; (2) Disagree; (3) Neither agree, nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References

1	Hibbeler, R.C., 2017, "*Engineering Mechanics - Statics* ", 14th Ed. In SI Units, Prentice-Hall, Singapore
2	Beer, F., Johnston, E.R., and Cornwell, J.P. , 2013, "*Vector Mechanics for Engineers Statics and Dynamics* ", 10th Ed., McGraw-Hill
3	Lecture Notes Provided

WEEK	Date	TOPICS	Reference No - Section
1	23.09.2025 - 25.09.2025	Introduction- General principles	1; 1, 2; 1
2	30.09.2025 - 2.10.2025	Force vectors	1; 2
3	07.10.2025 - 09.10.2025	Force vectors	1; 2
4	14.10.2025 - 16.10.2025	Equilibrium of a particle	1; 3, 2; 3
5	21.10.2025 - 23.10.2025	Equilibrium of a particle	1; 3, 2; 3
6	28.10.2025 - 30.10.2025	Force system resultants	1; 4, 2; 3
7	04.11.2025 - 06.11.2025	Force system resultants	1; 4, 2; 3
8	08 - 16/11/2025	**Midterm Examination Week (08 - 16/11/2025)**	-
9	18.11.2025 - 20.11.2025	Equilibrium of a rigid body	1; 5, 2: 4
10	25.11.2025 - 27.11.2025	Equilibrium of a rigid body	1; 5, 2: 4
11	02.12.2025 - 04.12.2025	Structural analysis: Analysis of trusses	1; 6, 2; 6
12	09.12.2025 - 11.12.2025	Internal forces; shear force and bending moment diagrams	1; 7, 2; 7
13	16.12.2025 - 18.12.2025	Shear force and bending moment diagrams, Centroids	1; 7, 1; 9, 2; 7
14	23.12.2025 - 25.12.2025	Centroids, First moment of Area	1; 9, 2; 9
15	30.12.2025 - 31.12.2025	Moment of inertia	1; 10, 2; 9
16	03 - 11/01/2026	**Final Examination Week (03 - 11/01/2026)**	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03-11/01/2026	50	
Semester Evaluation			50	100.0
Midterm(s)	1	08-16/11/2025	35	70.0
Quiz(zes)				
Project(s)				
Homework(s)	1	TBA	15	30.0
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework	1	20	20.0
TLH self study	14	5	70	Project			
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2.0
ME preparation self study	1	20	20	FE preparation self study	1	25	25.0
						TOTAL :	181
						Recommended ECTS Credit (Total Hours / 30) :	**6**

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
MATH 201	Ordinary Differential Equations	Compulsory	4	0	0	4	5	FRIDAY: 15:00-18:50 HK001
Prerequisite	MATH 101 -Calculus 1	Prerequisite to						

Course Lecturer	Asst.Prof. Dr. Feride S. Tabak	Office Hours Schedule	Monday: -Friday: 09:00-12:00
E-mail	ftabak@eul.edu.tr		
Phone	2787	Office / Room No	AS 103
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	Definition and classification of differential equations. Solution of first order linear differential equations, initial value problems, homogeneous differential equations, non-homogeneous differential equations, separation of variables, exact differential equations, integrating factors, the method of undetermined coefficient, Bernoulli equations, higher order differential equations, Systems of linear differential equations with constant coefficients, Cauchy Euler equations, Laplace transforms and properties of Laplace Transforms.
Objectives	The main aim of this course is to provide students with an introductory yet comprehensive overview of basic theory of ordinary differential equations, and to introduce the methods of classification and finding the solutions to different classes of differential equations with various methods.
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) Identify types of differential equations (2) Solving first order differential equations (3) Solving higher order differential equations (4) Solving Inhomogeneous linear systems (5)Basics of Laplace Transforms

Programme Outcome Relations			
	PO1: 5 **PO2: 1** **PO3: 1** **PO4: 1** **PO5: 1** **PO6: 1**	**PO7: 1** **PO8: 1** **PO9: 1** **PO10: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	S.L ROSS, Introduction to Ordinary Differential Equations, 4th Edition, John Wiley & Sons, 1989
	2	Polking, Bogges, Arnold, "Differential Equations", Pearson Education, 2006
	3	EDWARDS & PENNY, Elementary Differential Equations, 6th Edition Pearson Education, 2013.

WEEK	Date	TOPICS	Reference No - Section
Week 1	9/26/2025	Course Outline and Course aim. Calculus Revision.	1:1:1.1
Week 2	10/3/2025	Classification of Differential equations, Initial value problems	1:1:1.2-1.3
Week 3	10/10/2025	First Order Equations for which exact solitions are obtainable	1:2:2.1
Week 4	10/17/2025	Solving Exact differential equations and General problem solving	1:2:2.1-2.2 & Ref.2-3
Week 5	10/24/2025	Homogeneous Equations and seperable equations	1:2:2.2
Week 6	10/31/2025	Linear Equations and Bernoulli equations	1:2:2.3
Week 7	11/7/2025	Linear Equations and Bernoulli equations	1:2:2.3
Week 8	11/14/2025	**Midterm(s)**	
Week 9	11/21/2025	Special Integrating Factors and Transformations	1:2:2.4
Week 10	11/28/2025	Explicit Methods of solving higher order linear differential equations, repeated, conjugate complex roots	1:4:4.1-4.2
Week 11	12/5/2025	Second Order Linear Inhomogeneous ODE, Method of undetermined coefficients	1:4:4.3-4.4
Week 12	12/12/2025	First Order linear Inhomogeneous ODES. Cauchy- Euler Equations	1:4:4.5
Week 13	12/19/2025	Introduction to Laplace Transform	1:9:9.1
Week 14	12/26/2025	Properties of Laplace transform and General problem solving	1:9:9.2-9.3
Week-15/16	1/2/2026	**REVISION**	
	1/9/2026	**Final**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1		50	50.0
Semester Evaluation			50	
Midterm(s)	1		30	30.0
Quiz(zes)	1		10	10.0
Project(s)				
Homework(s)	1		10	10.0
Laboratory work(s)				
Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	13	39	Homework		
TLH self study	13	52	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial	13	26
L preparation work					
Midterm exam (ME)	2	3	Final exam (FE)	1	1.5
ME preparation self study	2	18	FE preparation self study	1	12
			TOTAL :		151.5
			Recommended ECTS Credit (Total Hours / 30) :		5.05

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE202	*Strength of Materials*	Compulsory	*4*	*0*	-	*4*	6	*Wendsday 12:00 - 14:00* *Friday 09:00 - 11:00*
Prerequisite	-	**Prerequisite to**				*CLE303*		

Course Lecturer	*Lecturer Hasan Dilek*	**Office Hours Schedule**	*Tuesday 11:00 - 12:50*
E-mail	hdilek-lau@eul.edu.tr		
Phone	-	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue description	Simple stress and strain. Equilibrium, compatibility and constitutive relations, state of stress and state of strain with emphasis on two dimensional problems. Bending and shear stresses. Shear and bending moment diagrams by integrating and section method. Deflection of beams. Torsion of circular shafts. Combined stresses. Buckling of columns.
Course Objectives	*The purpose of this course is to provide the students with a clear and thorough knowledge of mechanics of materials that will provide the engineer with the means of analyzing and designing various machines and load bearing structures.*
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: An ability to determine stress and strain An ability to determine bending stress An ability to determine shear stress

Program Outcomes			
	PO1: 5 **PO2: 4** **PO3: 5** **PO4: 5** **PO5: 1** **PO6a: 1** **PO6b: 1**	**PO7: 1** **PO8: 1** **PO9: 1** **PO10a: 1** **PO10b: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Beer F.P., Johston E.R. & DeWolf J.T., 2012, "*Mechanics of Materials* ", 3rd Ed, McGraw Hill, the USA
	2	Hibbeler R.C., 2012, "*Mechanics of Materials* " 6th Ed., Prentice Hall, the USA

WEEK	Date	TOPICS	Reference No - Section
1	4.02.2026 - 6.02.2026	Introduction - Concept of Stress	1:1 - 1:6
2	11.02.2026 - 13.02.2026	Introduction - Concept of Stress	1:7 - 1:13
3	18.02.2026 - 20.02.2026	Stress and Strain - Axial Loading	2:1 - 2:6
4	25.02.2026 - 27.02.2026	Stress and Strain - Axial Loading	2:7 - 2:12
5	4.03.2026 - 6.03.2026	Stress and Strain - Axial Loading	2:13 - 2:20
6	11.03.2026 - 13.03.2026	Torsion	3:1 - 3:6
7	18.03.2026 - 20.03.2026	Torsion	3:7 - 3:13
8	25.03.2026 - 27.03.2026	Pure Bending	4:1 - 4:7
9	1.04.2026 - 3.04.2026	Pure Bending	4:8 - 4:15
10	04 - 12.04.2026	**Mid-term Exams Week** (04 - 12.04.2026)	-
11	15.04.2026 - 17.04.2026	Analysis and Design of Beams for Bending	5:1 - 5:6
12	22.04.2026 - 24.04.2026	Shearing Stress in Beams and Thin-Walled Members	6:6 - 6:9
13	29.04.2026 - 1.05.2026	Shearing Stress in Beams and Thin-Walled Members	6:6 - 6:9
14	6.05.2026 - 8.05.2026	Transformations of Stress and Strain	7:1 - 7:5
15	13.05.2026 - 15.05.2026	Transformations of Stress and Strain	7:6 - 7:13
16	16 - 25.05.2026	**Final Exams** (16 - 25.05.2026)	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/04/2026	40	
Semester Evaluation			40	100
Midterm(s)	1	04-12/04/2026	30	75,0
Quiz(zes)				
Project(s)				
Homework(s)	3	TBA	30	75,0
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	4	56	Homework	1	20	20
TLH self study	14	4	56	Project			
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1
ME preparation self study	1	20	20	FE preparation self study	1	20	20
				TOTAL =	174,0		
				Recommended ECTS Credit (Total Hours / 30) ≈	6,0		

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE206 / CVEN206	*Dynamics*	Compulsory	*4*	*1*	-	*4*	5	*Monday 12:00-13:50 (AS116)* *Wednesday 10:00-11:50 (AS203)*
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*İbrahim Bay*	**Office Hours Schedule**	*Monday 14:00-14:50*
E-mail	*ibay@eul.edu.tr*		
Phone	*+9 0 392 660 2000 (ext: 2509)*	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	Kinematics of particles and rigid bodies absolute motion, relative motion. Kinetics of particles equation of motion, work-energy and impulse-momentum. Systems of particles. Kinetics of rigid bodies Euler's equation, plane motion of rigid bodies, kinetic energy of rigid bodies. Introduction to the dynamics of vibrating systems.
Course Objectives	The purpose of this course is to provide the student with a clear and through presentation of the theory and application of the principles of engineering mechanics. Theory of kinematics and kinetics of particles, force, acceleration, kinetics of particle in terms of work, energy, impulse and momentum and finally information about vibration will be given with practical applications.
Learning Outcomes	At the end of this course student will be able to: 1 *understand behaviour of particles in motion,* 2 *engage to the use of force and acceleration theories,* 3 *apply of work and energy concept,* 4 *understand impulse and momentum theories,* 5 *understand basics of vibrations*

Program Outcomes				
PO1:	*4*	**PO7:**	*1*	***(1) Strongly disagree;***
PO2:	*4*	**PO8:**	*1*	***(2) Disagree;***
PO3:	*3*	**PO9:**	*1*	***(3) Neither agree, nor disagree;***
PO4:	*4*	**PO10a:**	*1*	***(4) Agree;***
PO5:	*1*	**PO10b:**	*1*	***(5) Strongly agree.***
PO6a:	*1*	**PO11:**	*1*	
PO6b:	*1*			

Textbooks and/or References	1 Hibbeler, R.C., 2010, "*Engineering Mechanics - Dynamics* ", 12th Ed. In SI Units, Prentice-Hall, Singapore
	2 Beer, F., Johnston, E.R., and Cornwell, J.P. , 2009, "*Vector Mechanics for Engineers Statics and Dynamics* ", 9th Ed., McGraw-Hill

WEEK	Date	TOPICS	Reference No - Section
1	04/02/2026	Introduction	1.12
2	11/02/2026	Kinematics of a particle and system of particles	1.12
3	18/02/2026	Kinematics of a particle and system of particles	1.12
4	25/02/2026	Kinematics of a particle and system of particles	1.12
5	04/03/2026	Kinetics of a particle: Force and acceleration	1.13
6	11/03/2026	Kinetics of a particle: Force and acceleration	1.13
7	18/03/2026	Kinetics of a particle: Force and acceleration	1.13
8	25/03/2026	Kinetics of a particle: Work and energy	1.14
9	01/04/2026	Kinetics of a particle: Work and energy	1.14
10	08/04/2026	**Mid-Term Exams** (04/04/2026 - 12/04/2026)	
11	15/04/2026	Kinetics of particle : impulse and momentum	1.15
12	22/04/2026	Kinetics of particle : impulse and momentum	1.15
13	29/04/2026	Kinetics of particle : impulse and momentum	1.15
14	06/05/2026	Vibrations	1.22
15	13/05/2026	Vibrations	1.22
16	20/05/2026	**Final Exams** (16/05/2026 - 25/05/2026)	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100
Midterm(s)	1	TBA	30	50.0
Quiz(zes)				
Project(s)				
Homework(s)	5	TBA	6	50.0
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	15	= 15*4= 60
Midterm	1	= 1*1= 1
Quiz		
Laboratory		
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours	15	= 15*1= 15
Final	1	= 1*2= 2
Project		
Homework	5	= 5*2= 10
Seminar		
Presentation		
Self Study	15	= 15*4= 60

TOTAL = 148.0

Recommended ECTS Credit (Total Hours / 30) ≈ 5.0

"FA" will be given if the student has either poor interest (<70% attendance) or insufficient data for grading.
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=12231"

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN208	Materials of Construction	Compulsory	2	0	2	3	5	Tuesday - 12:00 - 14:50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Aslı Bardak	Office Hours Schedule	Wednesday 11.00-12.50 Thursday 11:00-12.50
E-mail	abardak@eul.edu.tr		
Phone		Office / Room No	AS304
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	The aim of this course is to teach the civil engineering students: the production methods of cement, properties and types of cementitious materials, such as lime, gypsum, flyash. Aggregates, fresh and hardened properties of concrete, temperature problems in concreting, concrete mix design for design. other construction materials properties, bricks,masonry building material,timber and plasters.
Course Objectives	The aim of this course is to teach the civil engineering students: the production methods of cement, properties and types of cementitious materials. Aggregates, fresh and hardened properties of concrete, temperature problems in concreting, concrete mix design for design.
Learning Outcomes	The student will be able to attain the following learning outcomes for this course: 1. Understand the Physical and Mechanical Properties of Aggregates 2. Understand the Cement Types and their physical, chemical and mechanical Properties 3. Recognize the Fresh Concrete and Related Tests 4. Recognize the Hardened Concrete and Related Tests 5.Gain an experience for Mix Design Calculations

Program Outcomes			
	PO1: 5 **PO2: 4** **PO3: 1** **PO4: 1** **PO5: 5** **PO6a: 3** **PO6b: 1**	**PO7: 1** **PO8: 3** **PO9: 1** **PO10a: 1** **PO10b: 1** **PO11: 5**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Neville, A.M and Brooks, J.J. 'Concrete Technology', Published by Pearson Education Limited, Harlow, England, 2010
	2	Neville, A. M. 'Neville on Concrete: An Examination of Issues in Concrete Practice', Second Edition, 2006.
	3	Neville, A.M, "Properties of Concrete", Fourth Ed., Prentice-Hall, 2003
	4	Mehta, P.K., and Monteiro, P.J.M., 2001. Microstructure, Properties and Materials, 2nd edition, 239 pp.

WEEK	Date	TOPICS	Reference No - Section
Week 1	04/02/2026	Introduction	1: 1,1
Week 2	11/02/2026	Cementitious materials	1:2.1;2.3
Week 3	18/02/2026	Cement	1: 1,4
Week 4	25/02/2026	Laboratory tests for testing cement properties	1: 1,5
Week 5	04/03/2026	Aggregates	1: 1,6
Week 6	11/03/2026	Laboratory tests for aggregates	1: 7,1-7,5
Week 7	18/03/2026	Fresh Concrete, Mixing, handling, placing and compacting of concrete	1: 7,1-7,5
Week 8	25/03/2026	Laboratory practical for Concrete Casting	1: 3,1-3,3
Week 9	01/04/2026	Quality of water	1: 6,7
Week 10	4-12/04/2026	Midterm(s)	
Week 11	15/04/2026	Hardened Concrete	1: 9,1
Week 12	22/04/2026	Laboratory tests for hardened concrete	1: 9,1
Week 13	29/04/2026	Mix Design Calculations	1:10.1;10.2;10.3;10.4
Week 14	06/05/2026	Mix Design Calculations	1:10.1;10.2;10.3;10.4
Week 15	13/05/2026	Revision	
Week 16	16-25/05/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/05/2026	40	
Semester Evaluation				50
Midterm(s)	1	04-12/04/2026	30	60
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory	1	TBA	30	30
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours	14	3	42	Homework			
TLH self study	14	4	56	Project	4	5	20
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)	4	3	12	Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	10	10	FE preparation	1	10	10
						TOTAL :	**154**
						Recommended ECTS Credit (Total Hours / 30) :	**5**

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
MATH224	Engineering Mathematics	Compulsory	3	0	0	3	5	Monday 15:00-17:50
Prerequisite	MATH101	Prerequisite to						

Course Lecturer	Aslı BARDAK	Office Hours Schedule	you can reach on MS Teams Chat any time
E-mail	abardak@eul.edu.tr		
Phone		Office / Room No	AS304
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	The concept of numerical error, solution of nonlinear equations with root finding. Solution of linear systems of equations using software packages. Direct and iterative methods for the solution of linear algebraic equations. Polynomial interpolation (Lagrange and Newton polynomials) and extrapolation. Curve fitting for least squares line and polynomial fitting with data linearization method. Numerical differentiation, numerical integration with quadrature formulas and their error analysis. Numerical solution of ordinary differential equations.
Objectives	The main purpose of this course is to introduce numerical methods with the application to the solution of realistic engineering problems. This course also introduces engineering students to complex numbers.
Learning Outcomes	On successful completion of the course, students should have gained: (1) an ability to recognize the difference between analytical and numerical solutions (roundoff and truncation errors), (2) knowledge of bracketing and open methods to solve root of equation problems, (3) an ability to solve simultaneously sets of linear algebraic equations using Naive Gauss Eliminatlion, (4) ability to differentiate the fundamental difference between regression and interpolation and to solve the numerical method problems, (5) ability to solve numerical differentiation, ordinary differential equations and integration problems. (6) Having knowledge of complex numbers. (7) ability to solve optimization problems

Programme Outcome Relations			
PO1: 5 PO2: 3 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**	

Textbooks and/or References		
	1	S.C.Chapra, Raymond P Canale, Numerical Methods for Engineers, 7th Edition, McGrawHill, 2015
	2	S.C.Chapra Applied Numerical Methods with Matlab for Engineers and Scientists, 4th Edition, McGrawHill, 2018
	3	John. H. Mathews, Kurtis D. Fink, Numerical Methods Using MATLAB, 4th Edition Pearson Prentice Hall, 2004
	4	James Stewart, Calculus, 8th Ed. Cengage, 2015

WEEK	Date	TOPICS	Reference No - Section
Week 1		Modelling	1-1.1-1.4
Week 2		Roundoff and Truncation Errors	1-3.1-3.4
Week 3		Solution of Nonlinear Equations (Root Finding: Bisection Method, Regula Falsi)	1-5.1,5.2
Week 4		Solution of Nonlinear Equations (Root Finding: Simple Fixed Point Iteration, Newton Raphson, Secant Method)	1-6.1-6.3
Week 5		Solution of Linear Algebraic Equations (Introduction to Matrix Operations, Gauss Elimination Method)	1-9.1-9.4
Week 6		One Dimensional Unconstraint Optimization (Golden Section Search, Parabolic Interpolation)	1-13.1,13.2
Week 7		MIDTERM	1-15.1-15.3
Week 8		One Dimensional and Multidimensional Constrained Optimization(Linear programming, Software Packages)	
Week 9		Least-Squares Regression (Linear, Polynomial, Multiple Linear)	1-17.1-17.3
Week 10		Least-Squares Regression (General Linear, non-linear)	1-17.4,17.5
Week 11		Polynomial Interpolation (Newton's Divided Difference, Lagrange)	1-18.1,18.2
Week 12		Numerical Derivation and Integration	1-21.1-21.4,23.1
Week 13		Ordinary Differential Equations (Euler's Method)	1-25.1,25.2
Week 14		Complex Numbers (Analytic, functions, elementary functions, the exponential functions)	4-Appendice G
Week-15		**Finals**	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	16-25/05/2026	50	
	Semester Evaluation			50	
	Midterm(s)	1		50	100.0
	Quiz(zes)				
	Project(s)				
	Homework(s)				
	Laboratory works				
	Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	70	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	2	3	Final exam (FE)	1	2
ME preparation self study	2	15	FE preparation self study	1	20
				TOTAL :	152
				Recommended ECTS Credit (Total Hours / 30) :	5

EUROPEAN UNIVERSITY OF LEFKE- Faculty of Engineering

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course T	A	L	Credits	ECTS	Weekly Time Schedule
MATH226/STAT222	Probability and Statistic Methods		3	0	0	3	5	TUESDAY 15:00-17:50 (HK000)
Prerequisite		Prerequisite to						

Course Lecturer	Asst. Prof. Dr. Semih OĞUZCAN	Office Hours Schedule	Monday 10.00-11.50 /Tuesday 13.00-14.50 /Friday 14.00-14.50
E-mail	soguzcan@eul.edu.tr		
Phone		Office / Room No	AS310
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Course Objectives	The aim of this course is to introduce students to the fundamentals of the probability theory and the basics of statistical analysis that are essential to decision making in engineering.
Learning Outcomes	~~LO1: Understand basic concepts in probability including combinatorics, independence, conditional probability and Bayes rule.~~ LO2: Compute probabilities by modeling sample spaces and applying rules of permutations and combinations, additive and multiplicative laws and conditional probability. LO3: Solve basic problems arising in engineering that involve discrete and continuous probability distributions. LO4: Construct the probability distribution of a random variable, based on a real-world situation, and use it to compute expectation and variance. LO5: Use statistical concepts such as means, variances and various types of graphs to analyze datasets, and sampling distributions.

Textbooks and/or References		
	1	Sheldon Ross, "Introduction to Probability and Statistics for Engineers and Scientists", Elseveir, Academic press, ISBN 10: 0-12-370483-9
	2	R. E. Walpole, R. H. Myers, S. L. Myers and K. E. Ye, "Probability & Statistics for Engineers and Scientists", Prentice-Hall, 2011.

WEEK	Date	TOPICS	Reference No - Section
Week 1	03/02/2026	Introduction to Probability	Chapter 1
Week 2	10/02/2026	Probability Laws	2.1 2.2 2.3
Week 3	17/02/2026	The Random Variable	2.4 2.5
Week 4	24/02/2026	Operations on One Random Variable	2.4 2.5
Week 5	03/03/2026	Multiple Random Variables	2/6
Week 6	10/03/2026	Operations on Multiple Random Variables & Sampling Distributions (Descriptive Statistics)	2.7 & 2.8
Week 7/8/9/10	14-12/03-04/2026	**Midterms**	
Week 11	14/04/2026	Distribution functions & Continuous distribution functions	2.9 & 3.1
Week 12	21/04/2026	Gaussian RV : properties and applications & Gaussian RV: Q-function and its	3.2 & 3.3
Week 13	28/04/2026	Important Discrete distributions	3/8
Week 14	05/05/2026	Simple discrete RV . Binomial, hypergeometric combination permutation	3/9
Week 15&16	16-25/05/2026	**Final exams**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Assignment	1	16-25/05/2026	60	
Semester Evaluation			40	
Midterm Assignment	1	14-12/03-04/2026	40	100.0
Quiz(zes)	0		0	0.0
Project(s)	0		0	0.0
Homework	0		0	0.0
Laboratory	0		0	0.0
Other	0		0	0.0

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	14	42	Homework		
TLH self study	14	70	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)			Tutorial		
L preparation work					
Midterm exam (ME)	1	2	Final exam (FE)	1	2
ME preparation self study	2	15	FE preparation self study	1	20
				TOTAL :	151

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE300	*Summer Training I*	Compulsory	-	-	-	*0*	1	-
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*Şevket Can Bostancı*	**Office Hours Schedule**	-
E-mail	sbostanci@eul.edu.tr		
Phone	*+9 0 392 660 2000 (ext: 2523)*	**Office No**	*AS318*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	Civil Engineering students are required to take part in industrial work/organizations relating to their fields of study. This is required as part of the fulfilment of the degree program. Students are required to complete a total 20 consecutive working days of Summer Training after completing their second year.
Course Objectives	The purpose of the summer training is to get students prepared for office related work in Civil Engineering i.e. standard engineering drawings, surveying, preparing mix design for construction materials and understanding how to prepare quantity estimates.

Learning Outcomes	At the end of this course student will be able to:
1	*learn roles in organisation charts and their responsibilities*
2	*gain practical experience relevant to their field,*
3	*improve knowledge in office environment,*
4	*develop an understanding in professional customs and practices,*
5	*develop communication and correspondence skills,*
6	*learn to behave ethically with health and safety in mind.*

Program Outcomes				
PO1:	*4*	**PO8:**	*5*	***(1) Strongly disagree;***
PO2:	*1*	**PO9:**	*5*	***(2) Disagree;***
PO3:	*1*	**PO10a:**	*5*	***(3) Neither agree, nor disagree;***
PO4:	*4*	**PO10b:**	*5*	***(4) Agree;***
PO5:	*1*	**PO11:**	*5*	***(5) Strongly agree.***
PO6a:	*5*			
PO6b:	*5*			
PO7:	*5*			

Textbooks and/or References		
1	-	
2	-	

WEEK	Date	TOPICS	Reference No - Section
1	22/09/2025		
2	29/09/2025		
3	06/10/2025		
4	13/10/2025		
5	20/10/2025		
6	27/10/2025		
7	03/11/2025		
8	08-16/11/2025		
9	17/11/2025		
10	24/11/2025		
11	01/12/2025		
12	08/12/2025		
13	15/12/2025		
14	22/12/2025		
15	29/12/2025		
16	03-11/01/2026		

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Report Submission	1	TBA	100	
Semester Evaluation				
Midterm(s)				
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)				Homework			
TLH self study				Project			
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation				Report	1	30	30
Midterm exam (ME)				Final exam (FE)			
ME preparation self study				FE preparation self study			
						TOTAL :	30
						Recommended ECTS Credit (Total Hours / 30) :	1

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN/CE301	Soil Mechanics		3	0	2	4	6	Monday - 14:00 - 16:50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Asst. Prof. Dr. Şevket Bostancı	Office Hours Schedule	Wednesday 10.00-10.50 Friday 11.00-11.50 Wednesday 11.00-11.50
E-mail	sbostanci@eul.edu.tr		
Phone	2523	Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	Introduction to engineering problems involving soils. Basic characteristics of soils, classification and compaction of soils. Principle of effective stress. Permeability and flow of water (seepage) in soils. Shear strength of soils. Slope stability. Lateral earth pressure theories. Consolidation theory.
Course Objectives	The student is expected to learn: the fundamentals of soil compressibility and strength, the basics of settlement, bearing capacity, slope stability, earth pressure and the procedures for performing the standard soil laboratory tests.
Learning Outcomes	At the end of this course student will be able to; 1.explain the basic soil mechanic concepts 2. define the problems related to soil mechanics 3. perform laboratory work 4. define solution for problems in geotechnical projects 5. understand the concept of lateral earth pressure concept 6. define methods for slope stability analysis

Program Outcomes			
	PO1: 5 **PO2: 5** **PO3: 1** **PO4: 1** **PO5: 3** **PO6a: 1** **PO6b: 1**	**PO7: 1** **PO8: 1** **PO9: 3** **PO10a: 1** **PO10b: 1** **PO11: 1**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	R. F. Craig, Soil Mechanics, 7th Edition, Tayor & Francis, 2004
	2	L. Evett, Soils and Foundations, Prentice HALL, 2008
	3	Fundamentals of Geotechnical Engineering, 3. Edition. Braja Das 2008

WEEK	Date	TOPICS	Reference No - Section
Week 1	22/09/2025	Introduction	1: 1,1
Week 2	29/09/2025	Engineering Geology and Soil Classification	1: 1,4
Week 3	06/10/2025	Classification, Weight- Volume Relationships	1: 1,5
Week 4	13/10/2025	Compaction	1: 1,6
Week 5	20/10/2025	Consolidation	1: 7,1-7,5
Week 6	27/10/2025	Consolidation Lab	1: Handout
Week 7	03/11/2025	Efffective Stress and Pore Pressure	1: 3,1-3,3
Week 8	08-16/11/2025	Midterm(s)	
Week 9	17/11/2025	Effective Stress and Pore Pressure	1: 3,3-3,5
Week 10	24/11/2025	Shear strength of soil (The Mohr-Coulomb failure criterion)	1: 6,4-6,6
Week 11	01/12/2025	Shear strength test of soil	1: 6,7
Week 12	08/12/2025	Mohr-Coulomb Theory-Experiments	1: 9,1
Week 13	15/12/2025	Mohr-Coulomb Theory-Experiments	1: 9,1
Week 14	22/12/2025	Lateral Earth Pressure (At rest condition)	1: 9,6
Week 15	29/12/2025	Lateral Earth Pressure (At rest condition)	1: 9,6
Week 16	03-11/01/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03-11/01/2026	50	
Semester Evaluation				50
Midterm(s)	1	08-16/11/2025	30	60
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory	2	TBA	20	40
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours	14	4	56	Homework			
TLH self study	14	5	70	Project	2	10	20
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	15	15	FE preparation	1	15	15
						TOTAL :	180
						Recommended ECTS Credit (Total Hours / 30) :	6

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE307	*Fluid Mechanics*	*Compulsory*	*4*	*1*	-	*4*	5	*Wednesday 09:00-12:50 - AS113*
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*İbrahim Bay*	**Office Hours Schedule**	*Thursday 11:00-11:50*
E-mail	*ibay@eul.edu.tr*		
Phone	*+9 0 392 660 2000 (ext: 2509)*	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Course Objectives	*The aim of this course is to give basic principles of fluid mechanics. Students shall be able to understand the properties and behaviour of fluids at both static and kinetic states and should be capable to solve problems in engineering applications.*

Learning Outcomes		
	At the end of this course student will be able to:	
	1	apply mathematical knowledge to engineering for fluid mechanics
	2	understand fundamentals of fluid mechanics
	3	use the bouyancy and stability theorems
	4	apply equations for hydrostatic problems
	5	calculate properties of fluid flow using energy equations
	6	find out the force applied by a flow.

Program Outcome Relations				
PO1:	*5*	**PO7:**	*3*	***(1) Strongly disagree;***
PO2:	*5*	**PO8:**	*3*	***(2) Disagree;***
PO3:	*5*	**PO9:**	*3*	***(3) Neither agree, nor disagree;***
PO4:	*4*	**PO10a:**	*1*	***(4) Agree;***
PO5:	*3*	**PO10b:**	*1*	***(5) Strongly agree.***
PO6a:	*1*	**PO11:**	*1*	
PO6b:	*1*			

Textbooks and/or References		
	1	Mott, R.L., 2006, "*Applied Fluid Mechanics*", 6th Ed. in SI Units, Prentice Hall, Singapore
	2	Munson, B.R., Young, D.F. and Okiishi, T.H., 2005, "*Fundamentals of Fluid Mechanics*", 5th Ed., John Wiley and Sons Inc., Canada
	3	Potter, M.C. and Wiggert, D.C., 2001, "*Mechanics of Fluids*", 3rd Ed., CL Engineering., the USA

WEEK	Date	TOPICS	Reference No - Section
1	22/09/2025	The Nature of Fluids and Basic Introductory Concepts	1.1 - 1.12
2	29/09/2025	Viscosity of Fluids	2.1 - 2.10
3	06/10/2025	Pressure Measurement	3.1 - 3.9
4	13/10/2025	Forces Due to Static Fluids	4.1 - 4.5
5	20/10/2025	Forces Due to Static Fluids	4.6 - 4.12
6	27/10/2025	Bouyancy and Stability	5.1 - 5.7
7	03/11/2025	Bouyancy and Stability	5.1 - 5.7
8	10/11/2025	**Mid-term Exams (08.11.2025 - 16.11.2025)**	
9	17/11/2025	Flow of Fluids and Bernoulli's Equation	6.1 - 6.5
10	24/11/2025	Flow of Fluids and Bernoulli's Equation	6.1 - 6.5
11	01/12/2025	General Energy Equation	7.1 - 7.4
12	08/12/2025	General Energy Equation	7.1 - 7.4
13	15/12/2025	Flow Measurement	15.1 - 15.13
14	22/12/2025	Forced Due to Fluids in Motion	16.1 - 16.9
15	29/12/2025	Forced Due to Fluids in Motion	16.1 - 16.9
16	05/01/2026	**Final Exams (03.01.2026 - 11.01.2026)**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100,0
Midterm(s)	1	TBA	30	50,0
Quiz(zes)				
Project(s)	1	TBA	15	25,0
Homework(s)				
Laboratory	2	TBA	7,5	25,0
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	= 14*4 = 56
Midterm	1	= 1*1 = 1
Quiz		
Laboratory	2	= 2*3 = 6
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours	14	= 14*1 = 14
Final	1	= 1*2 = 2
Project	1	= 1*5 = 5
Homework		
Seminar		
Presentation		
Self Study	15	= 15*5= 75

TOTAL = 159,0

Recommended ECTS Credit (Total Hours / 30) : 5

Students presenting either poor interest (<70% attendance) or insufficient data will be graded "FA".
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=11108"

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE 303	Structural Analysis I		4	0		4	7	Saturday 10:00-14:00 (AS 114)
Prerequisite		Prerequisite to				-		

Course Lecturer	Asst. Prof.Dr. Ali Sadeghpour	Office Hours Schedule	
E-mail	asadeghpour-lau@eul.edu.tr		
Phone		Office / Room No	AS302
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	

Catalogue description	Structural Analysis I explores the principles of stability, determinacy, and load distribution in civil engineering structures, focusing on beams, trusses, and frames. This course introduces the fundamental principles of structural stability and force analysis, preparing students for advanced structural engineering.
Course Objectives	Understanding structural behavior, analyzing determinate and indeterminate structures, calculating internal forces and displacements, applying methods like equilibrium, virtual work, and influence lines, and preparing students for advanced structural design and analysis tasks in engineering

Learning Outcomes		
	1	Ability to analyze determinate and indeterminate structures.
	2	Proficiency in calculating internal forces and deflections.
	3	Application of methods like equilibrium and virtual work.

Program Outcomes			
	PO1: 5 PO2: 5 PO3: 4 PO4: 5 PO5: 1 PO6a: 1 PO6b: 1	PO7: 1 PO8: 1 PO9: 1 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	Hibbeler R.C.; Structural Analysis, SI edition; Prentice Hall, 2019 10th edition
	2	Leet, K.M. And Uang C.M. Fundamentals of Structural Analysis, McGraw Hill, 2017
	3	Kassimali, Aslam, Structural Analysis, 2018- Pearson
	4	Ghali, A., Neville, A.M., and Brown, T.G., Structural Analysis: A Unified Classical and Matrix Approach, CRC Press, 2017

WEEK	Date	TOPICS	Reference No - Section
Week 1	27/09/2025	Static instability, determinacy, and indeterminacy	1.2, 2,3, 2.12, 3.3
Week 2	04/10/2025	Analysis of Trusses	1.3, 2.3, 3.11
Week 3	11/10/2025	ANALYSIS OF STATICALLY DETERMINATE TRUSSES	1.3, 2.4, 3.4
Week 4	18/10/2025	Energy Methods	1.3, 2.4, 3.4
Week 5	25/10/2025	Energy Methods	1.9, 2.10, 3.7
Week 6	01/11/2025	METHOD OF VIRTUAL WORK: Trusses	1.9, 2.10, 3.7
Week 7	08/11/2025	METHOD OF VIRTUAL WORK: Trusses	1.9, 2.10, 3.7
Week 8	08-16/11/2025	Midterm Examination Week	
Week 9	22/11/2025	METHOD OF VIRTUAL WORK: BEAMS AND FRAMES	1.9, 3.7
Week 10	29/11/2025	METHOD OF VIRTUAL WORK: BEAMS AND FRAMES	1.9, 3.7
Week 11	06/12/2025	Castigliano's Second Theorem	1.9, 2.10, 3.7
Week 12	13/12/2025	Castigliano's Second Theorem	1.9, 2.10, 3.7
Week 13	20/12/2025	Influence Lines	1.6, 2.8, 3.9, 4.8
Week 14	27/12/2025	Influence Lines	1.6, 2.8, 4.8
Week 15	03/01/2026	Influence Lines	1.6, 2.8, 4.8
Week 16	03-11/01/2026	Final Exam	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	TBA	50	50
	Semester Evaluation			50	100
	Midterm(s)	1	TBA	40	40
	Quiz(zes)	3	TBA	10	10
	Project(s)				
	Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	4	56	Homework			
TLH self study	14	7	98	Project			
Quiz (Q)	3	2	6	Presentation			
Q preparation self study	3	5	15	Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	10	10	FE preparation self study	1	20	20
						TOTAL :	209
						Recommended ECTS Credit (Total Hours / 30) :	7

EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Title	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
ECON 413	Engineering Economy	Compulsory	3	0	0	3	5	wednesday @ 12:00-16:50
Prerequisite		Prerequisite to						

Course Lecturer	Aslı BARDAK	Office Hours Schedule	thursday 10:00-11:50
E-mail	abardak@eul.edu.tr		
Phone		Office / Room No	AS-304
Teaching Assistant		Phone	
E-mail		Office / Room No	

Catalogue Descriptions	Engineering economy principles. Cash-flow diagrams. Time effect on money. Formulas for reflecting time effect on money. How to value money that was spent before and how to value if it will be spent in the future while comparing different alternatives at present. Interest rate, simple interest rate, compound interest rate and compounding periods. How different compounding periods affecting the total amount of interest earned from the deposit. Why different alternatives need to be compared on economical basis. What is feasibility? Comparing different alternatives, examples. Minimum rate of return, attractive rate of return. Replacement and economic life concepts and problems about replacement concept by following different evaluation techniques.
Objectives	The main purpose of this course is to introduce some of the basic concepts of economy for engineering students. Effect of time on money, methods for comparing different alternative, Benefit-Cost Analysis, Replacement and Depreciation concepts are discussed.
Learning Outcomes	At the end this course, the student will be able to: (1) understand the some of the basic principles of economy, (2) understand and analyze the methods of comparing engineering projects' alternatives, (3) understand and analyze time effect on money by introducing interest rate, (4) evaluate how to make depreciation analysis, (5) evaluate how to investigate replacement concept.
Textbooks and/or References	1 Leland T. Blank, Anthony Tarquin, Engineering Economy 8th Edition, Mc Graw Hill (2018) (Textbook) 2 William G. Sullivan, Elin M. Wicks, C. Patrick Koelling, Engineering Economy 16th Edition Pearson (2015) (Reference)

WEEK	Date	TOPICS	Reference No - Section
Week 1	24/09/2025	Introduction to Engineering Economy Concept, basic concepts, basic and compound interest rates	1: 1.1-1.10
Week 2	01/10/2025	Time and Interest Effect of Money : Single Amount Factors, Uniform Series, Sinking Fund Factors	1: 2.1-2.3
Week 3	08/10/2025	Time and Interest Effect of Money : Untabulated factor values. Arithmetic, Geometric Gradient Series	1: 2.4-2.7
Week 4	15/10/2025	Non Uniform Cashflow: Shifted Uniform Series, Randomly Placed Single Amounts, Shifted Gradients	1: 3.1-3.4
Week 5	22/10/2025	Nominal and Effective Interest Rates: Definitions, Effective IR.(annual, different periods) , Equivalance	1: 4.1-4.4
Week 6	25/10-16/11/2025	MIDTERM I	
Week 7	19/11/2025	Nominal and Effective Interest Rates: Calculations for Equivalance Relations, Continious Compounding	1: 4.5-4.9
Week 8	26/11/2025	Present Worth Analysis : Formulating,Equal and Different Life Alternatives	1- 1-5
Week 9	03/12/2025	Rate of Return Analysis: Interpretation, Calculations, Special Considerations	1: 7.1-7.3
Week 10	10/12/2025	Benefit Cost Analysis: Public Sector, Analysis Methods, Ethical Considerations	1: 9.1-9.6
Week 11	17/12/2025	Replacement and Retention Decisions: Basics, Economic Service Life, Performing Study	1: 7, 9
Week 12	24/12/2025	Depreciation Methods: Terminology, Depreciation Calculations	1: 11.1-11.4
Week 13	31/12/2025	Depreciation Methods: Terminology, Depreciation Calculations	1: 16.1-16.4
Week 14	03-11/01/2026	Finals	all topics above

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03-11/01/2026	50	
Semester Evaluation			50	
Midterm(s)	1	25/10-16/11/2025	50	100.0
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory work(s)				
Attendance				

*** *Lifelong Learning Programme (LLP)* *** **Language of Instruction:** English

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical lecturing hours (TLH)	15	45	Homework		
TLH self study	15	60	Project		
Quiz (Q)			Presentation		
Q preparation self study			Seminar		
Laboratory (L)					
L preparation work					
Midterm exam (ME)	1	2	Final exam (FE)	1	2
ME preparation self study	4	16	FE preparation self study	4	16
				TOTAL :	141
				Recommended ECTS Credit (Total Hours / 30) :	5

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN302	Transportation and Traffic Engineering	Compulsory	3	0	2	4	7	Friday 14:00-17:00 AS 116 Saturday:10:00-13.00 (*) AS 116
Prerequisite	-	Prerequisite to				-		

Course Lecturer	cumhur aydın	Office Hours Schedule	Friday (12.00-13.00)
E-mail	caydin@eul.edu.tr		
Phone	+9 0 392 660 2000	Office No	
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office No	-

Catalogue Description

Detailed study of transportation planning process. Inventory of existing travel demand. Different types of O-D studies, analysis and model building. Trip generation, trip distribution model split and trip assignment techniques, forecasting and plan evaluation. Vehicle, highway and travel facts. Vehicle operation characteristics. Stopping and passing sight distance. Zero line application, simple horizontal curve, compound and reverse curves, transition length and super elevation. Basic definitions and computations of level of service. Setting out circular and transition curves. Earthwork volumes.

Course Objectives

The main purpose of this course is to introduce the concepts of highway and traffic engineering. The geometric design elements of highway will be discussed. Horizontal and vertical design parameters (horizontal& vertical curves, superelevation, etc.) will be evaluated. Traffic stream variables are also evaluated and capacity &level of service concepts are introduced for freeways and for multilane highways. Signalized intersections' operation conditions are evaluated.

Learning Outcomes

At the end of this course student will be able to:

1	understand the concept of transportation engineering and the modes of transportation
2	understand and analyze highway design elements
3	understand how to deal with horizontal and vertical design fundamentals.
4	evaluate how to measure the basic traffic stream variables (flow, speed, density)
5	evaluate capacity and level of service concepts for freeways and for multilane highways

Program Outcomes

PO1	5	PO7	1	(1) Strongly disagree;
PO2	5	PO8	3	(2) Disagree;
PO3	4	PO9	1	(3) Neither agree nor disagree;
PO4	1	PO10a	1	(4) Agree;
PO5	1	PO10b	1	(5) Strongly agree.
PO6	3	PO11	1	
PO6	1			

Textbooks and/or References

1	*Principles of Highway Engineering and Traffic Analysis; F. L. Mannering; S. Wahsburn, 7th Edition, Wiley.*
2	Transportation Engineering &Planning, C.S. Papacostas,P.D.Prevedouros.

WEEK	Date	TOPICS	Reference No - Section
1	06/02/2026	Introduction to Transportation Engineering	Chapter 1
2	13/02/2026	Modes of Transportation; Highway Engineering, in general.	Chapter 1,2
3	20/02/2026	Highway Horizontal Design; Sight Distance	Chapter 3
4	27/02/2026	Highway Horizontal Design; Horizontal Curves	Chapter 3
5	06/03/2026	Highway Horizontal Design; Superelevation	Chapter 3
6	13/03/2026	Highway Vertical Design; Vertical Curves, Cross Sections	Chapter 3
7	20/03/2026	Highway Vertical Design; Vertical Curves, Cross Sections	Chapter 3
8	27/03/2026	Principles of Traffic Engineering	Chapter 5
9	03/04/2026	Principles of Traffic Engineering	Chapter 5
10	4-12/04/2026	MID TERM WEEK	
11	17/04/2026	Traffic Stream Variables /Freeways: Capacity	Chapter 6
12	24/04/2026	Freeways: Capacity and LOS	Chapter 6
13	01/05/2026	Evaluation	Chapter 6
14	08/05/2026	Multilane Highways: Capacity and LOS	Chapter 7
15	15/05/2026	Multilane Highways: Capacity and LOS	Chapter 7
16	16-25/05/2026	Signalized Intersections	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/05/2026	40	
Semester Evaluation			60	100.0
Midterm(s)	1	4-12/04/2026	30	50.0
Quiz(zes)				
Project(s)	1	TBA	15	25.0
Homework(s)	1	TBA	15	25.0
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework	1	10	10
TLH self study	14	7	98	Project	1	15	15
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1
ME preparation self study	1	20	20	FE preparation self study	1	20	20
						TOTAL :	207.0
						Recommended ECTS Credit (Total Hours / 30) :	7

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE 304	Structural Analysis 2		4	1	0	4	7	Saturday 14:00-18:00
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Asst. Prof. Dr. Ali Sadeghpour	Office Hours Schedule	
E-mail	asadeghpour-lau@eul.edu.tr		
Phone		Office / Room No	AS302
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	

Catalogue description	Introduction to structural analysis. Displacement methods slope deflection, moment distribution, special topics. Stiffness method, derivation of element stiffness matrices, assembly procedures. Computerized implementation of the stiffness method and use of instructional programs. Large scale structural analysis. Influence lines and moving loads.
Course Objectives	Students will understand statical and kinematic indeterminacy and apply appropriate structural analysis techniques. They will analyze the physical response of structures to various loads, determine redundant forces and displacements, and differentiate between idealized models and real structures.

Learning Outcomes	
1	the student is expected to understand statical indeterminacy and adopt an appropriate structural analysis technique.
2	perform basic calculations to determine redundant forces and displacements.
3	judgment.

Program Outcomes			
PO1: 5 PO2: 5 PO3: 4 PO4: 5 PO5: 1 PO6a: 1 PO6b: 1	PO7: 1 PO8: 1 PO9: 1 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.	

Textbooks and/or References	
1	Hibbeler R.C.; Structural Analysis, SI edition; Prentice Hall, 2019 10th edition
2	Leet, K.M. And Uang C.M. Fundamentals of Structural Analysis, McGraw Hill, 2017
3	Kassimali, Aslam, Structural Analysis, 2018- Pearson
4	Ghali, A., Neville, A.M., and Brown, T.G., Structural Analysis: A Unified Classical and Matrix Approach, CRC Press, 2017

WEEK	Date	TOPICS	Reference No - Section
Week 1	07/02/2026	Portal Frame Method	1.12; 3.11
Week 2	14/02/2026	Portal Frame Method	2.13; 4.12
Week 3	21/02/2026	Slope-Deflection Method- Beams	1.13; 3.12
Week 4	28/02/2026	Slope-Deflection Method- Beams	2.14; 4.13
Week 5	07/03/2026	Slope-Deflection Method- Sway Frames	1.13; 3.12
Week 6	14/03/2026	Slope-Deflection Method- Non-sway Frames	1.13; 3.12
Week 7	21/03/2026	Slope-Deflection Method- Non-sway Frames	2.14; 4.13
Week 8	28/03/2026	Moment-Distribution Method- Beams	1.14; 3.13
Week 9	04/04/2026	Midterm Exam	-
Week 10	11/04/2026		
Week 11	18/04/2026	Moment-Distribution Method- Frames	1.14; 3.13
Week 12	25/04/2026	Moment-Distribution Method- Frames- Revision	2.15; 4.14
Week 13	02/05/2026	Kani's method Introduction	1.15; 3.14
Week 14	09/05/2026	Project presentation	2.16; 4.15
Week 15	5/16 - 5/25/2026	Final Exam	-

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1		40	40
	Semester Evaluation				100
	Midterm(s)	1		40	40
	Quiz(zes)	2	TBA	10	10
	Project(s)	1	TBA	10	10
	Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	4	56	Homework			
TLH self study	14	5	70	Project	1	15	15
Quiz (Q)	2	2	4	Presentation			
Q preparation self study	2	5	10	Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	25	25	FE preparation self study	1	30	30
						TOTAL :	214
						Recommended ECTS Credit (Total Hours / 30) :	7

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2024-2025 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE 306	Foundation Engineering		4	0		4	6	Monday 09.00-11.50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Assoc. Prof. Dr. Şevket Can Bostancı	Office Hours Schedule	Tuesday 14.00-14.50 Tuesday 15.00 - 15.50 Thursday 12.00-12.50
E-mail	sbostanci@eul.edu.tr		
Phone		Office / Room No	AS310
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Course Objectives	In this course, you will learn how to plan a site investigation, how to classify and characterize soils for foundation design, how to estimate the capacity of foundations, and how to estimate the settlement of the soil under the foundation load. You will also learn the principles that govern flow of water in soils, settlement and heave of soils, and shear strength of soils.
Learning Outcomes	1. Understand the material behavior and site characterization. 2. Design and Analysis of deep and shallow foundations. 3. Utilize knowledge in soil mechanics to perform various types of engineering calculations.

Program Outcomes			
	PO1: 5 **PO2: 5** **PO3: 1** **PO4: 1** **PO5: 1** **PO6a: 4** **PO6b: 1**	**PO7: 1** **PO8: 1** **PO9: 3** **PO10a: 1** **PO10b: 1** **PO11: 3**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1	Birand, A., (2002). CE366 Foundation Engineering 1, METU
	2	Atkinson, J., (2007), The Mechanics of Soils and Foundation, 2nd edition, Taylor and Francis
	3	Das, M.B., (2006), Principles of Geotechnical Engineering, 6th edition, Cengage Learning
	4	Craig, R.F., (1997), Soil Mechanics, 6th edition, E&FN Spon

WEEK	Date	TOPICS	Reference No - Section
Week 1	04/02/2026	Introduction of Course	Handout
Week 2	11/02/2026	Engineering Geology and Soil Classification	2 : 5.1-5.9
Week 3	18/02/2026	Site Investigation Techniques	2 : 17.1 - 17.7
Week 4	25/02/2026	Stress Distribution - Elastic Theory	4 : 5.2 - 5.3
Week 5	04/03/2026	Settlement of Structures	1 : 3.1 -3.12
Week 6	11/03/2026	Bearing Capacity of Soils	1: 4.1 - 4.25
Week 7	18/03/2026	Foundation Types - Shallow Foundations	1 : 5.1 - 5.21
Week 8	25/03/2026	Foundation Types - Shallow Foundations	
Week 9	01/04/2026	Foundation Types - Deep Foundations	1 : 5.1 - 5.21
Week 10	4-12/04/2026	Midterm Exam Week	1 : 7.1 - 7.36
Week 11	15/04/2026	Foundation Types - Deep Foundations	Handout
Week 12	22/04/2026	Basis of Geotechnical Design to EC7	
Week 13	29/04/2026	Basis of Geotechnical Design to EC7	1 : 10.1 - 10.21
Week 14	06/05/2026	Earth Retaining Structures	Handout
Week 15	13/05/2026	Earth Retaining Structures	Handout
Week 16	16-25/05/2026	Final Exam Week	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	23.05-02.06/2025	50	50
Semester Evaluation				100
Midterm(s)	1	12-20/04/2025	30	60.0
Quiz(zes)				
Project(s)	1		20	40.0
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours	14	3	42	Homework			
TLH self study	14	6	84	Project	1	15	15
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1
ME preparation self study	1	15	15	FE preparation self study	1	15	15
						TOTAL :	173.0
						Recommended ECTS Credit (Total Hours / 30) :	6

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE308	*Hydromechanics*	Compulsory	*2*	-	*2*	*3*	6	*Monday 09:00-11:50 (AS113)*
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*İbrahim Bay*	**Office Hours Schedule**	*Tuesday 12:00-12:50*
E-mail	*ibay@eul.edu.tr*		
Phone	*+9 0 392 660 2000 (ext: 2509)*	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	Introduction. General Characteristics of Flow in Closed Conduits. Fully Developed Flow in Closed Conduits. Computation of Flow in Single Pipes. Non-uniform Flow in Closed Conduits. Pipes in Series and Pipes in Parallel. Branching Pipes. Hydraulics Operation of Pumped Discharge Lines. Gravity Pipelines. General Characteristics of Open Channel Flow and Uniform Flow. Specific-Energy Concept and Critical Flow. Rapidly Varied Flow. Specific Force Concept. Conjugate Depths. Gradually Varied Flow. Design of Open Channels for Uniform Flow.
Course Objectives	The objective of the course is to provide a physical understanding of phenomena and concepts of water flows both in pipes and open channels. Calculation methods to analyze a number of important hydraulic measures will also be introduced. The course deals mainly with free-surface flows with emphasis on open-channel hydraulics.
Learning Outcomes	At the end of this course student will be able to: # *strengthen the fluid mechanics knowledge,* # *understand the hydraulics concept,* # *gain confidence on pipe flow, flow in pipes in series and pipes in parallel, network systems,* # *understand the open channels concept* # *calculate water levels in an open channel before and after hydraulic jumps, and when physical properties of the channel varies* # *design the best hydraulic section for open channels*

Program Outcome Relations				
PO1:	*4*	**PO7:**	*1*	***(1) Strongly disagree;***
PO2:	*4*	**PO8:**	*4*	***(2) Disagree;***
PO3:	*4*	**PO9:**	*1*	***(3) Neither agree, nor disagree;***
PO4:	*4*	**PO10a:**	*1*	***(4) Agree;***
PO5:	*1*	**PO10b:**	*1*	***(5) Strongly agree.***
PO6a:	*1*	**PO11:**	*1*	
PO6b:	*1*			

Textbooks and/or References		
	1	Altınbilek, D. et.al., 2006, "*Hydromechanics, Lecture Notes* ", METU, Ankara
	2	Günyaktı, A. & Günyaktı, A., 2020, "*Hydromechanics* ", Nobel, Ankara
	3	Akan, A.O., 2006, "*Open Channel Hydraulics* ", Butterworth-Heinemann, Elsevier, Canada

WEEK	Date	TOPICS	Reference No - Section
1	02/02/2026	Introduction, General Characteristics of Flow in Closed Conduits, Fully Developed Flow in Closed Conduits	1.1, 2.1, 2.2
2	09/02/2026	Computation of Flow in Single Pipes	2.3
3	16/02/2026	Non-uniform Flow in Closed Conduits	2.4
4	23/02/2026	Pipes in Series and Pipes in Parallel	2.5.1 - 2.5.2
5	02/03/2026	Branching Pipes	2.5.3
6	09/03/2026	Network Solutions	2.5.4
7	16/03/2026	Hydraulics Operation of Pumped Discharge Lines	2.5.5
8	23/03/2026	Gravity Pipelines	2.5.6
9	30/03/2026	General Characteristics of Open Channel Flow & Uniform Flow	3.1 - 3.2
10	06/04/2026	**Mid-Term Exams** (04/04/2026 - 12/04/2026)	
11	13/04/2026	Specific-Energy Concept and Critical Flow	3.3
12	20/04/2026	Specific-Energy Concept and Critical Flow	3.3
13	27/04/2026	Rapidly Varied Flow, Specific Force Concept, Conjugate Depths	3.4
14	04/05/2026	Gradually Varied Flow	3.5
15	11/05/2026	Design of Open Channels for Uniform Flow	3.6
16	18/05/2026	**Final Exams** (16/05/2026 - 25/05/2026)	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100
Midterm(s)	1	TBA	30	50.0
Quiz(zes)				
Project(s)	1	TBA	10	16.7
Homework(s)				
Laboratory	2	TBA	10	33.3
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	15	= 15*2= 30
Midterm	1	= 1*1.5= 1,5
Quiz		
Laboratory	2	= 2*5= 10
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours	15	= 15*2= 30
Final	1	= 1*1.5= 1,5
Project	1	= 1*15= 15
Homework		
Seminar		
Presentation		
Self Study	15	= 15*6= 90

TOTAL = 181.5

Recommended ECTS Credit (Total Hours / 30) ≈ 6.0

"FA" will be given if the student has either poor interest (<70% attendance) or insufficient data for grading.
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=12171"

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN402	*Summer Training II*	Compulsory	-	-	-	*0*	30	-
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*Şevket Can Bostancı*	**Office Hours Schedule**	-
E-mail	sbostanci@eul.edu.tr		
Phone	*+9 0 392 660 2000 (ext: 2523)*	**Office No**	*AS318*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	Civil Engineering students are required to take part in industrial work/organizations relating to their fields of study. This is required as part of the fulfilment of the degree program. Students are required to complete a total 20 consecutive working days of Summer Training after completing their third year.
Course Objectives	The purpose of the summer training is to give students an opportunity to learn field applications in surveying, quantity and cost estimates# construction materials, site applications in either reinforced concrete, structural, steel, hydraulics and highway designs, and preparing standard engineering drawings.

Learning Outcomes

At the end of this course student will be able to:

1	*improve knowledge about roles in organisation charts and their responsibilities*
2	*gain practical experience relevant to their field,*
3	*improve knowledge in construction site environment,*
4	*develop an understanding in professional customs and practices,*
5	*improve communication and correspondence skills,*
6	*learn to behave ethically with health and safety in mind.*

Program Outcomes

PO1:	*3*	**PO8:**	*5*
PO2:	*1*	**PO9:**	*5*
PO3:	*5*	**PO10a:**	*5*
PO4:	*5*	**PO10b:**	*5*
PO5:	*1*	**PO11:**	*5*
PO6a:	*5*		
PO6b:	*5*		
PO7:	*5*		

(1) Strongly disagree;
(2) Disagree;
(3) Neither agree, nor disagree;
(4) Agree;
(5) Strongly agree.

Textbooks and/or References

1	-
2	-

WEEK	Date	TOPICS	Reference No - Section
1	22/09/2025		
2	29/09/2025		
3	06/10/2025		
4	13/10/2025		
5	20/10/2025		
6	27/10/2025		
7	03/11/2025		
8	08-16/11/2025		
9	17/11/2025		
10	24/11/2025		
11	01/12/2025		
12	08/12/2025		
13	15/12/2025		
14	22/12/2025		
15	29/12/2025		
16	03-11/01/2026		

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Report Submission	1	TBA	100	
Semester Evaluation				
Midterm(s)				
Quiz(zes)				
Project(s)				
Homework(s)				
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours				Homework			
TLH self study				Project			
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work				Report	1	30	30
Midterm exam (ME)				Final exam (FE)			
ME preparation self study				FE preparation self study			
						TOTAL :	30
						Recommended ECTS Credit (Total Hours / 30) :	1

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN403	REINFORCED CONCRETE FUNDAMENTALS		3	0		3	4	Saturday 14:00-17:00 (AS 114)
Prerequisite	-	Prerequisite to	-					

Course Lecturer	Asst. Prof.Dr. Ali Sadeghpour	Office Hours Schedule	
E-mail	asadeghpour-lau@eul.edu.tr		
Phone		Office / Room No	AS302
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	

Catalogue description	Concept of design Structures. Limit state theory, concept of safety, definition of reinforced concrete element. Criterion of failure of axial loading. Section under binding and axial load, cracking and limit states. Stress distribution of compression zone of concrete. Bending combined with axial loading. Internal forces. Equilibrium equations. Design tables and curves for a rectangular section. Providing safety for shear in columns and beams. Providing safety for shear in columns and beams. Design of Beams and Frames. Torsion. Bond, anchorage, splices of reinforcement. Ductility. Beam-column joints. Design specifications. Slabs with beams. One way slabs. Two-way slabs. Design specifications.
Course Objectives	The aim of this course is to develop an understanding on the behavior of reinforced concrete elements under various loading and environmental conditions, introduce the standard approach and the methods of reinforced concrete analysis and design.

Learning Outcomes		
	1	Analyze and Design reinforced concrete beams following structural principles.
	2	Calculate and Distribute Loads effectively in reinforced concrete beams.
	3	Apply Design Procedures in compliance with current code requirements.

Program Outcomes			
	PO1: 3 PO2: 5 PO3: 5 PO4: 3 PO5: 1 PO6a: 1 PO6b: 1	PO7: 1 PO8: 1 PO9: 1 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1	D. Darwin, C. W. Dolan, and A. H. Nilson, Design of Concrete Structures, 15th Edition, McGraw Hill, 2016
	2	James K. Wight, Reinforced concrete Mechanics and design, 7th Edition
	3	Building Code Requirements for Structural Concrete (ACI 318M-22)
	4	Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE 7-22)

WEEK	Date	TOPICS	Reference No - Section
Week 1	27/09/2025	General principles	1.1-2.1-3.1
Week 2	04/10/2025	Material behavior, main characteristics of concrete as a strcutural material	1.2-2.2-3.19-3.20-4.12-4.2
Week 3	11/10/2025	Load and materials factor computation	2.2-3.5-3.21-4.2
Week 4	18/10/2025	Ultimate limit state, Analysis and design of beams subjected to bending	1.5-2.4.1-2.4.7-3.22
Week 5	25/10/2025	Analysis and design of beams subjected to bending	1.5-2.5.1-2.5.2-2.5.5-3.22
Week 6	01/11/2025	Rectangular Singly reinforced beam	1.6-2.6.2-2.6.3-2.6.4
Week 7	08/11/2025	Midterm exams	Midterm exams
Week 8	15/11/2025		
Week 9	22/11/2025	Rectangular doubly reinforced beam	1.7-2.7.3
Week 10	29/11/2025	Rectangular doubly reinforced beam	1.7-2.7.2
Week 10	13/12/2025	Shear Design of Beams, T- beams	1.8-2.8.3-3.23
Week 11	20/12/2025	Shear Design of Beams, T- beams	1.8-2.8.4-3.23
Week 12	27/12/2025	Shear Design of Beams, T- beams	1.8-2.8.5-3.23
Week 13	01/11/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	50	50
Semester Evaluation			50	
Midterm(s)	1	TBA	40	40
Quiz(zes)	3	TBA	10	10
Project(s)				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework			
TLH self study	14	3	42	Project			
Quiz (Q)	3	2	6	Presentation			
Q preparation self study	3	5	15	Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	20	20	FE preparation self study	1	20	20
						TOTAL :	149
						Recommended ECTS Credit (Total Hours / 30) :	5

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

Faculty of Engineering

Civil Engineering Department

2025-2026 - Spring Sememster - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE405	Fundamentals of Steel Design	Compulsory	2	2	-	3	5	Tuesday - 14:00-16:50 - AS114
Prerequisite	-	Prerequisite to				-		

Course Lecturers	İbrahim BAY	Office Hours Schedule	Wednesday 15:00-16:50
E-mail	ibay@eul.edu.tr		
Phone	+90 (0) 392 660 2000 (ext: 2509)	Office No	AS301
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office No	-

Catalogue Description	General concepts in design. Design methods, loads (dead, live, wind, snow and earthquake), codes, safety, serviceability. Behavior of steel structures. Tension members, compression members, beams, beam-columns, types and behavior of connections in steel structures, bolted and welded connections.
Course Objectives	To introduce the concepts of fundamentals of structural steel design, including: structural steel properties, tension members, compression members, methods of designing structural steel members and strength and behabiour of bolted and welded connections.

Learning Outcomes

At the end of this course student will be able to:

1. gain basic knowledge about steel structures and their mechanical properties,
2. determine the design capacity of basic steel structural members,
3. determine the design capacity of bolted and welded steel connections,
4. understand integrated analysis and design of structural steel members
5. understand engineering principles underlying the specifications for the design of various structural steel components

Program Outcome Relations

PO1:	5	PO7:	3
PO2:	5	PO8:	4
PO3:	5	PO9:	4
PO4:	1	PO10a:	1
PO5:	3	PO10b:	1
PO6a:	1	PO11:	1
PO6b:	1		

(1) Strongly disagree;
(2) Disagree;
(3) Neither agree, nor disagree;
(4) Agree;
(5) Strongly agree.

Textbooks and/or References

1. Lecture Notes
2. W. T. Segui, 2007, "Steel Design", 4th Ed., Cengage Learning.
3. E. Gylord and j. Shallmayor, 2010, "*Design of Steel Structures* ", 3rd Ed., Prentice Hall.
4. C.G. Salmon and J.E. Johnson,2010, "*Steel Structures: Design and Behaviour* ", 4th Ed., Pearson.

WEEK	Date	TOPICS	Reference No - Section
1	22/09/2025	Introduction to Steel Structures	Lecture Notes and Textbook
2	29/09/2025	Design Loads	Lecture Notes and Textbook
3	06/10/2025	Design Loads	Lecture Notes and Textbook
4	13/10/2025	Tension Members	Lecture Notes and Textbook
5	20/10/2025	Tension Members	Lecture Notes and Textbook
6	27/10/2025	Beams	Lecture Notes and Textbook
7	03/11/2025	Beams	Lecture Notes and Textbook
8	10/11/2025	**Mid-term Exams** (08.11.2025 - 16.11.2025)	
9	17/11/2025	Axially Load Compression Members	Lecture Notes and Textbook
10	24/11/2025	Axially Load Compression Members	Lecture Notes and Textbook
11	01/12/2025	Bolted Connections	Lecture Notes and Textbook
12	08/12/2025	Bolted Connections	Lecture Notes and Textbook
13	15/12/2025	Welded Connections	Lecture Notes and Textbook
14	22/12/2025	Welded Connections	Lecture Notes and Textbook
15	29/12/2025	Revision	Lecture Notes and Textbook
16	05/01/2026	**Final Exams** (03.01.2026 - 11.01.2026)	Lecture Notes and Textbook

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100
Midterm(s)	1	TBA	30	50.0
Quiz(zes)				
Project(s)	1	TBA	30	50.0
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	= 14*3= 42
Midterm	1	= 1*1.5= 1,5
Quiz		
Laboratory		
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours		
Final	1	= 1*1.5= 1,5
Project	1	= 1*10= 10
Homework		
Seminar		
Presentation		
Self Study	14	= 14*7= 98

TOTAL = 153.0

Recommended ECTS Credit (Total Hours / 30) ≈ 5.0

"FA" will be given if the student has either poor interest (<70% attendance) or insufficient data for grading.
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=11111 "

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN415	Construction Management	Compulsory	3	0	-	3	5	Friday 09:00-11:50 AS 113 Saturday 10.00- 13.00 AS 113 (Every two weeks)
Prerequisite	-	Prerequisite to				-		

Course Lecturer	cumhur aydın	Office Hours Schedule	
E-mail	caydin@eul.edu.tr		
Phone	+9 0 392 660 2000	Office No	
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office No	-

Catalogue Description	Profile of construction sector; company and site organization. Documents in a contract file, types of contracts. General specifications for public works. Technical specifications. Working schedules; manpower and equipment requirements on the job. Quantity measurement monthly payments. Final account and payment. Safety in construction. Economical and juridical basis of construction planning. Methods of planning. Gantt charts, networks. CPM and PERT Arrow and present system. Rock drilling and blasting operations.
Course Objectives	*The main purpose of this course is to introduce the concepts of construction management to students. Various methods used in scheduling construction applications will be explained. In addition, cash flow calculations are evaluated..*

Learning Outcomes		
	At the end of this course student will be able to:	
1	understand the concept of construction planning and management	
2	prepare organizations and management charts	
3	install a construction site	
4	schedule a construction project	
5	do cash flow calculations for a construction project	

Program Outcomes					
PO1	4	PO7	1	(1) Strongly disagree;
PO2	3	PO8	1	(2) Disagree;
PO3	1	PO9	1	(3) Neither agree nor disagree;
PO4	1	PO10a	5	(4) Agree;
PO5	3	PO10b	1	(5) Strongly agree.
PO6	1	PO11	1	
PO6	1			

Textbooks and/or References		
1	*Construction Engineering and Management, METU Lecture Notes*	
2	Walker, A., 2007, "*Project Management in Construction* ", 5th ed., Blackwell Publishing, Singapore	

WEEK	Date	TOPICS	Reference No - Section
1	26/27.09.2025	Introduction to construction planning and management	1-1.
2	**03/04.10.2025**	Organizations, site installation,	1-3.
3	10/11.10.2025	Contractor's and engineer's site organization	1-3.
4	**17/18.10.2025**	Estimating and Tendering	1-4.
5	24/25.10.2025	Construction scheduling-bar charts	1-4.
6	**31.10/01.11.2025**	Construction scheduling-bar charts	1-4.
7	07/08.11.2025	Mid-term Exams Week	1-4.
8	14/15.11.2025	Mid-term Exams Week	1-4.
9	21/22.11.2025	Cash flow in construction projects	
10	**28/29.11.2025**	Cash flow in construction projects	1-6.
11	05/06.12.2025	Quality and safety management at construction sites	1.7.
12	**12/13.12.2025**	Scheduling for repetititve works (Excavation equipment)	1-8.
13	19/20.12.2025	Construction Machinery and Equipment	1-8.
14	**26/27.12.2025**	Revisions	1-7-8.
15	02/03.01.2026	Final Exams	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	TBA	40	
	Semester Evaluation			60	100.0
	Midterm(s)	1	TBA	30	50.0
	Quiz(zes)	1	TBA	15	25.0
	Project(s) (Quiz)	1	TBA	15	25.0
	Homework(s)				
	Laboratory				
	Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework			
TLH self study	14	3	42	Project	1	15	15
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1
ME preparation self study	1	10	10	FE preparation self study	1	10	10
						TOTAL :	121
				Recommended ECTS Credit (Total Hours / 30) :			4

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE417	Water Resources Engineering	Compulsory	3	-	0	3	4	Monday - 09:00-11:50 - AS114
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	İbrahim Bay	**Office Hours Schedule**	Wednesday 14:00-14:50
E-mail	ibay@eul.edu.tr		
Phone	+9 0 392 660 2000 (ext: 2509)	**Office No**	AS301
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description

Classification of dams, types of spillways, crest gates, outlet works, uses, quantities, characteristics and quality of water. Treatment and distribution systems. Soil water relationships, irrigation methods, drainage flow and land drainage, culverts and bridge waterways, hydroelectric power plants, turbines.

Course Objectives

This project-based course will introduce students to the fundamental principles of sustainable water resources engineering. The goal is to give essential knowledge of sustainability in the context of water systems and upon completion, candidates should be able to investigate, define water resources sustainability, plan and find a way
of solution for an appropriate design.

Learning Outcomes

At the end of this course student will:

1. be capable to understand water resources and their management,
2. understand sustainability of water resources,
3. be able to design and calculate and control structures like reservoir, dam, spillway,
4. be able to understand rainwater harvesting and management,

Program Outcome Relations

PO1:	5	**PO7:**	3
PO2:	5	**PO8:**	4
PO3:	5	**PO9:**	4
PO4:	1	**PO10a:**	1
PO5:	3	**PO10b:**	1
PO6a:	1	**PO11:**	1
PO6b:	1		

(1) Strongly disagree;
(2) Disagree;
(3) Neither agree, nor disagree;
(4) Agree;
(5) Strongly agree.

Textbooks and/or References

1. Melih, A.M., 2006, "Applied Water Resources Engineering", 3rd Ed., METU Press, Ankara, Turkiye
2. Davis, Mackenzie L., 2010, "Water and Wastewater Engineering", Design Principles and Practice, Mc Graw Hill, the USA
3. Chin, D.A., 2006, "Water Resources Engineering", Prentice Hall, 2007

WEEK	Date	TOPICS	Reference No - Section
1	22/09/2025	Introduction	
2	29/09/2025	Reservoirs	
3	06/10/2025	Reservoirs	
4	13/10/2025	Dams	
5	20/10/2025	Dams	
6	27/10/2025	Spillways	
7	03/11/2025	Spillways	
8	10/11/2025	**Mid-term Exams** (08.11.2025 - 16.11.2025)	
9	17/11/2025	Water Supply	
10	24/11/2025	Water Supply	
11	01/12/2025	Water Supply	
12	08/12/2025	Wastewater	
13	15/12/2025	Wastewater	
14	22/12/2025	Wastewater	
15	29/12/2025	Rainwater harvesting	
16	05/01/2026	**Final Exams** (03.01.2026 - 11.01.2026)	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	50	
Semester Evaluation			50	100
Midterm(s)	1	TBA	20	40.0
Quiz(zes)				
Project(s)	1	TBA	30	60.0
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	= 14*3= 42
Midterm	1	= 1*2= 2
Quiz		
Laboratory		
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours		
Final	1	= 1*2= 2
Project	1	= 1*8= 8
Homework		
Seminar		
Presentation		
Self Study	16	= 16*4= 64

TOTAL = 118

Recommended ECTS Credit (Total Hours / 30) ≈ 4.0

"FA" will be given if the student has either poor interest (<70% attendance) or insufficient data for grading.
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=11113 "

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN419	Graduation Project I	Elective	1	0	0	1	2	
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Assist. Prof. Dr. Şevket C. Bostancı	Office Hours Schedule	Monday 10.00-10.50 Wednesday 11.00-11.50 Thursday 11.00-11.50
E-mail	sbostanci@eul.edu.tr		
Phone	2523	Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	This course is a preliminary course to CE450 Graduation Project II course. It reveals the methodologies and suggest approaches regarding to the successful completion of Graduation Project II. Students are expected to perform research on their area of interest and have an understanding of the recent applications and approaches. A programme of work explaining proposed tasks for the completion of Graduation Project II should be also performed. Students are expected to write a report and prepare a poster summarizing the proposed works and specific objectives of the projects.
Course Objectives	The Graduation Project I aims to encourage application of theoretical knowledge to civil engineering practices. The design project provides an experience in designing and implementing methods within multiple realistic constraints using conventional materials, tools and facilities. Projects should be proposed in conformity with relevant standards, ethical issues and environmental responsibilities.

Learning outcomes		
	1	Gain theoretical knowledge on the literature review on the area of interest
	2	Improve technical writing and research skills
	3	Identify specific objectives of the project
	4	Perform preliminary research on specific tasks
	5	Perform writing technical report
	6	Prepare technical poster on the given project

Program Outcomes			
	PO1: 5 **PO2: 5** **PO3: 5** **PO4: 5** **PO5: 5** **PO6a: 5** **PO6b: 5**	**PO7: 5** **PO8: 5** **PO9: 5** **PO10a: 5** **PO10b: 5** **PO11: 5**	**(1) Strongly disagree;** **(2) Disagree;** **(3) Neither agree nor disagree;** **(4) Agree;** **(5) Strongly agree.**

Textbooks and/or References		
	1.	Euroean University of Lefke (2022) How to Write a Technical Report. Lecture Notes.
	2.	Beer, D.F, McMurrey, D.A. (2005) A guide to writing as an engineer. New York: Wiley.

WEEK	Date	TOPICS	Reference No - Section
Week 1	22/09/2025	Introduction to Topic	
Week 2	29/09/2025	Introduction to Research Skills	
Week 3	06/10/2025	Introduction to Technical Writing	
Week 4	13/10/2025	Introduction to Technical Writing	
Week 5	20/10/2025	Introduction to Technical Writing	
Week 6	27/10/2025	Establishing Literature Review	
Week 7	03/11/2025	Establishing Literature Review	
Week 8	08-16/11/2025	**Midterm Examination Week**	
Week 9	17/11/2025	Programme of Work for Graduation Project II	
Week 10	24/11/2025	Draft Submission and Feedback	
Week 11	01/12/2025	Draft Submission and Feedback	
Week 12	08/12/2025	Poster Preparation Guidelines	
Week 13	15/12/2025	Final Draft Preparation	
Week 14	22/12/2025	Final Draft Preparation	
Week 15	29/12/2025	Project Submission / Poster Display	
Week 16	03-11/01/2026	**Final Examination Week**	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam				
Semester Evaluation				**100**
Mid-term Exam				
Poster	1	TBA	30	30
Project Report	1	TBA	70	70
Presentation		TBA		

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)				Project	1	40	40.0
TLH self study				Project Report Preparation	1	10	10.0
Quiz (Q)				Presentation			
Q preparation self study				Presentation Preparation			
Laboratory (L)				Poster preparation	1	10	10.0
L preparation work							
Midterm exam (ME)				Final exam (FE)			
ME preparation self study				FE preparation self study			
				TOTAL :		60.0	
				Recommended ECTS Credit (Total Hours / 30) :		**2**	

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

… Engineering Department

2025-2026 - Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
ENGG434	*Engineering Ethics*	Compulsory	*3*	-	-	*3*	5	*Tuesday 15:00-17:50 (ASA100)*
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*İbrahim Bay*	**Office Hours Schedule**	*Monday 13:00-13:50*
E-mail	*ibay@eul.edu.tr*		
Phone	*+9 0 392 660 2000 (ext: 2509)*	**Office No**	*AS301*
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description

Ethics and professionalism, moral reasoning, moral frameworks, ethical theories, commitment of safety, risks, workplace responsibilities, honesty, equal opportunity: non-discrimination, confidentiality and conflicts of interest, environmental ethics, green engineering, sustainable development, dilemma resolution, professional rights, whistleblowing. Code of ethics: The Institute of Electrical and Electronics Engineers, American Institute of Chemical Engineers, American Society of Civil Engineers, Software Engineering. Basic ethics training. Engineering professional training, job responsibilities and professionalism, labor law and ethics. Case studies on the topics of engineering professional ethics, labor safety, environmental protection. Computers and ethics, data protection, computer failures. Global issues.

Course Objectives

This course is designed to introduce undergraduate engineering students to the concepts, theory and practice of engineering ethics. The topics cover professionalism, moral reasoning and codes of ethics, moral frameworks, commitment of safety, workplace responsibilities, environmental ethics, green engineering, dilemma resolution. Basic ethics training, job responsibilities, labor law and ethics, case studies.

Learning Outcomes

At the end of this course student will be able to:

1. *develop comprehension of professional and ethical responsibilities of engineers, including code of ethics of professional societies,*
2. *address and resolve problems arising from questionable practice,*
3. *develop critical thinking skills and professional judgement and understand practical difficulties of bringing about change,*
4. *develop a professional ethical identity to carry forward in their working life,*
5. *recognize the existence of ethical issues.*

Program Outcomes

PO1:	*1*	**PO7:**	*5*
PO2:	*1*	**PO8:**	*3*
PO3:	*1*	**PO9:**	*3*
PO4:	*1*	**PO10a:**	*3*
PO5:	*1*	**PO10b:**	*3*
PO6a:	*4*	**PO11:**	*3*
PO6b:	*4*		

(1) Strongly disagree;
(2) Disagree;
(3) Neither agree, nor disagree;
(4) Agree;
(5) Strongly agree.

Textbooks and/or References

1. *Mike W. Martin and Roland Schinzinger., "Ethics in Engineering", fourth edition, 2005*
2. *Jr. Charles E. Harris, "Engineering Ethics: Concepts and Cases", 5th Edition, Wadsworth Publishing, 2013*
3. *Charles E. Harris Jr., Michael S. Pritchard., Michael J. Rabins., "Engineering Ethics: Concepts and Cases", 4th Edition, Wadsworth Publishing, 2008*
4. Herman T. Tavani, "Ethics and Technology: Controversies, Questions, and Strategies for Ethical Computing", 4th Edition, John Wiley and Sons, 2012

WEEK	Date	TOPICS	Reference No - Section
1	03/02/2026	Introduction	1-1.1;1
2	10/02/2026	Ethics and Professionalism	1-1.1;1
3	17/02/2026	Ethics and Professionalism	1-1.2,1-1.3, 2-2.1,2-2.2;2-2.3
4	24/02/2026	Moral Reasoning and Codes of Ethics	1-1.2,1-1.3, 2-2.1,2-2.2;2-2.3
5	03/03/2026	Moral Reasoning and Codes of Ethics	3-3.1,3-3.2,3-3.3, 3-5.1,3-5.2
6	10/03/2026	Moral Frameworks	1-3.1,1.3.2
7	17/03/2026	Moral Frameworks	4-4.1,4-4.2
8	24/03/2026	Engineering Ethics Case Studies	
9	31/03/2026	Engineering Ethics Case Studies	
10	07/04/2026	**Mid-Term Exams** (04/04/2026 - 12/04/2026)	
11	14/04/2026	Engineering as social Experimentation: Informed consent, Industrial Standards	3-6,1,3-6.2
12	21/04/2026	Engineering as social Experimentation: Safety issues - Commitment to Safety	3-6,1,3-6.2
13	28/04/2026	Workplace Responsibilities and Rights	3-6,3,3-6.4
14	05/05/2026	Moral Frameworks: Honesty	3-6.5,3-6.6
15	12/05/2026	Engineers and Technological Progress & Global Issues	4-7.1,4,7.2
16	19/05/2026	**Final Exams** (16/05/2026 - 25/05/2026)	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100
Midterm(s)	1	TBA	20	33.3
Quiz(zes)				
Project(s)	1	TBA	20	33.3
Homework(s)				
Participation				
Other (Presentation)	1	TBA	20	33.3

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	15	= 15*3= 45
Midterm	1	= 1*1= 1
Quiz		
Laboratory		
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours		
Final	1	= 1*1= 1
Project	1	= 1*25= 25
Homework		
Seminar		
Presentation	1	= 1*15= 15
Self Study	15	= 15*5= 75

TOTAL = 152.0

Recommended ECTS Credit (Total Hours / 30) ≈ 5.0

"FA" will be given if the student has either poor interest (<70% attendance) or insufficient data for grading.
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=12372"

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE450	Graduation Project II	Elective	0	9	0	5	5	
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Assoc. Prof. Dr. Şevket C. Bostancı	Office Hours Schedule	Tuesday 12.00-12.50 Wednesday 11.00 - 11.50 Thursday 10.00-10.50
E-mail	sbostanci@eul.edu.tr		
Phone	2523	Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	This course includes the implementation of a laboratory or real-life scenarios, in individual or inter-disciplinary teams, Civil Engineering capstone project emphasizing Civil Engineering design principles on the specific subject area. Individuals or the teams must successfully complete the detailed design and implementation of the preliminary specified methodology which was proposed in the CE419 course. It is the course of action in the professional application of the theoretical knowledge and experience gained in the undergraduate program. Students are expected to present their work, prepare a poster summarizing the main findings of the performed work and submit a detailed final thesis report that includes methodology and codes of practices implemented in the graduation project.
Course Objectives	The graduation project II aims to encourage application of theoretical knowledge to civil engineering practices. The design project provides an experience in designing and implementing methods within multiple realistic constraints using conventional materials, tools and facilities. Projects should be implemented conforming relevant standards, ethical issues and environmental responsibilities.

Learning outcomes		
	1	Ability to apply knowledge and understanding of fundamental sciences and specialized civil engineering concepts and theories to design and develop in civil engineering subject area,
	2	Demonstrate knowledge and understanding of codes of practices, safety regulations and assessment methods (simulations, experimental practices), propose designs in civil engineering subject area and of their limitations,
	3	Ability to use modern tools or facilities to validate innovations and recent developments in laboratories or real-life case scenarios,
	4	Ability to manage time and resources effectively while conducting civil engineering projects,
	5	Ability to work individually or in inter-disciplinary teams in a harmonized manner to find solutions for the proposed problem,
	6	Ability to write technical reports and to defend the studied engineering project using appropriate presentation skills, modern techniques
	7	Demonstrate awareness of the key aspects of professional, ethical and social responsibilities linked to management of civil engineering activities, decision making and judgment formulation.

Program Outcomes			
PO1: 5 PO2: 5 PO3: 5 PO4: 5 PO5: 5 PO6: 5	PO7: 5 PO8: 5 5 PO11: 5	PO9: PO10: 5	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References		
	1.	Euroean University of Lefke (2022) How to Write a Technical Report. Lecture Notes.
	2.	Beer, D.F, McMurrey, D.A. (2005) A guide to writing as an engineer. New York: Wiley.

WEEK	Date	TOPICS	Reference No - Section
Week 1	04/02/2026	Engineering Design Issues and Guidelines	
Week 2	11/02/2026	Technical Writing Skills Guidelines	
Week 3	18/02/2026	Technical Writing Skills Guidelines	
Week 4	25/02/2026	Ethical Issues Guidelines	
Week 5	04/03/2026	Resource Efficiency and Time Management Guidelines	
Week 6	11/03/2026	Plagiarism Definition and Guidelines	
Week 7	18/03/2026	Plagiarism Definition and Guidelines	
Week 8	25/03/2026	Presenation Preparation Guidelines	
Week 9	01/04/2026	Presenation Preparation Guidelines	
Week 10	4-12/04/2026	**Midterm Examination Week**	
Week 11	15/04/2026	Draft Submission and Feedback	
Week 12	22/04/2026	Poster Preparation Guidelines	
Week 13	29/04/2026	Final Draft Preparation	
Week 14	06/05/2026	Project Submission / Oral Presentation / Poster Display	
Week 15	13/05/2026	Project Submission / Oral Presentation / Poster Display	
Week 16	16-25/05/2026	**Final Examination Week**	

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam				
	Semester Evaluation				100
	Mid-term Exam				
	Poster	1	TBA	10	10
	Project Report	1	TBA	70	70
	Presentation	1	TBA	20	20

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)				Project	1	120	120.0
TLH self study				Project Report Preparation	1	15	15.0
Quiz (Q)				Presentation	1	1	1.0
Q preparation self study				Presentation Preparation	1	10	10.0
Laboratory (L)				Poster preparation	1	10	10.0
L preparation work							
Midterm exam (ME)				Final exam (FE)			
ME preparation self study				FE preparation self study			
				TOTAL :		156.0	
				Recommended ECTS Credit (Total Hours / 30) :		**5**	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Economics & Administrative Sciences"

"Department of Business Administration"

SYLLABUS

2025-26 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
BUSN 461	Strategic Planning & Management		3	0	0	3	5	Thursday, 9:00-11:50
Prerequisite			**Prerequisite to**					

Course Lecturer	Assist. Prof. Dr. Hüseyin Karşılı	**Office Hours Schedule**	Tursday, 09:00-11:50
E-mail	hkarsili@eul.edu.tr		
Phone	3601	**Office / Room No**	FEAS 06
Teaching Assistant(s)	-	**Phone**	
E-mail	-	**Office / Room No**	-

Catalogue Descriptions	The course covers the nature of management, management theories and perspectives, organizational environment, social responsibility and ethics. Course discusses the basic management functions. Planning: decision making, organizational goals, strategic management and implementation. Organizing: organizational structure, organizational
Course Objectives	The course aims at providing the advanced insights of strategic management perspective on key business decisions. The course primarily focuses on corporate strategic planning process, strategy formulation, impact of micro and macro
Learning Outcomes	1-Ability to understand the concept of strategy and the basic model of strategic management and its components. 2-Competency in conducting environmental and internal scanning to be transformed into strategies. 3-Ability to possess conceptual and analytical skills required to be developed business, corporate and functional strategies. 4-Ability to work in teams to examine real life cases with an analytical manner and competency in making presentations in front of audiences.
Textbooks and/or References	1-Wheelen, T.L. and Hunger, D. J., (2012) Concepts in Strategic Management and Business Policy, Towards Global Sustainability, Boston: Pearson. 2-Grant, R. M. And Jordan, J. (2012) Foundations of Strategy. West Sussex: Wiley. 3-Kourdi, J. (2015) Business Strategy : A Guide to Effective Decision-making, London: The Economist. 4- Schilling, M. (2016) Strategic Management of Technological Innovation, 5th Edition, Kindle Edition. 5- Bagley, C. E. (2015).Managers and the Legal Environment: Strategies for the 21st Century, 8th Edition, South-Western College.

WEEK	Date	TOPICS	Reference No - Section
Week 1	**9/25/2025**	Introduction & Course Overview	
Week 2	**10/2/2025**	Basic Concepts of Strategic Management	2:1; 1:1; 3:1; 4.3
Week 3	**10/9/2025**	Corporate Governance	2:1; 1:1; 3:1; 4.3
Week 4	**10/16/2025**	Social Responsibility and Ethics in Strategic Management	1:4
Week 5	**10/23/2025**	Environmental Scanning and Industry Analysis	1:5; 1:6
Week 6	**10/30/2025**	Organizational Analysis and Competitive Advantage	1:5; 1:6
week 7	**11/6/2025**	Midterm Revision	
week 8	**8-16 NOVEMBER**	**Midterm Examination**	1:6
Week 9	**11/20/2025**	Strategy Formulation: Business Strategy	1:7; 3:8
week 10	**11/27/2025**	Strategy Formulation: Corporate Strategy	1:8
week 11	**12/4/2025**	Strategy Formulation: Functional Strategy and Strategic Choice	
week 12	**12/11/2025**	Project Report	5:4; 5,7

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN426	Highway Engineering	Elective	3	0	-	3	4	Friday 14:00-16.50 AS 113 Saturday 14:00-16.50 AS 113 (Every two weeks)
Prerequisite	-	Prerequisite to				-		

Course Lecturer	cumhur aydın	Office Hours Schedule	Friday (13:30-15.00)
E-mail	caydin@eul.edu.tr		
Phone	+9 0 392 660 2000	Office No	
Teaching Assistant(s)	-	Phone	-
E-mail	caydin@eul.edu.tr	Office No	-

Course Objectives	The main purpose of this course is to introduce the concepts of safe road design to students. Various methods used in evaluating safety status of the road will be explained. In addition, a project will be assigned, which will help the students in combining their theoretical knowledge with risk associated practical real-life applications.

Learning Outcomes	At the end of this course student will be able to:
1	understand the concept of safe road design
2	prepare black spot analysis schemes
3	find out countermeasures for improvement of road sites
4	find out countermeasures for improvement of road sites
5	apply and to present actual road safety audit evaluation

Program Outcomes					
PO1	4	PO7	1	(1) Strongly disagree;	
PO2	1	PO8	4	(2) Disagree;	
PO3	4	PO9	1	(3) Neither agree nor disagree;	
PO4	1	PO10a	1	(4) Agree;	
PO5	4	PO10b	1	(5) Strongly agree.	
PO6a	1	PO11	1		
PO6b	1				

Textbooks and/or References		
1	Road Safety Management; TMS Consultancy.
2	

WEEK	Date	TOPICS	Reference No - Section
1	26/27.09.2025	Introduction to safe road design concept	1-1.
2	**03/04.10.2025**	Blackspot Management	2-1.
3	10/11.10.2025	Find out accident prone locations	2-3.
4	**17/18.10.2025**	Couses of the accidents	2-4.
5	24/25.10.2025	Countermeasure alternatives	3-4.
6	**31/10/01.11.2025**	Priority List, selecting countermeasure	4.5.
7	07/08.11.2025	Mid-term Exams Week	
8	14/15.11.2025	Mid-term Exams Week	
9	21/22.11.2025	Implementation &Follow-up	04-Jun
10	**28/29.11.2025**	Safety audit and Safety inspection techniques	5.1.
11	05/06.12.2025	Audit on road projects	5.2.
12	**12/13.12.2025**	Audit on roads under traffic	5.3.
13	19/20.12.2025	Safe road design techniques	6.1.
14	**26/27.12.2025**	Project presentations	6.2.
15	02/03.01.2026	Final Exams	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100.0
Midterm(s)	1	TBA	30	50.0
Quiz(zes)	1	TBA	15	25.0
Project(s)	1	TBA	15	25.0
Homework(s)				
Laboratory				
Other				

*** Lifelong Learning Programme (LLP) ***

Language of Instruction:

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework	1	2	2
TLH self study	14	3	42	Project	1	5	5
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	5	5	FE	1	20	20
						TOTAL :	120
						Recommended ECTS Credit (Total Hours / 30) :	4

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN472	Advanced Materials of Construction		3	0		3	4	Wednesday 14:00-16:50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Asst. Prof. Dr. Şevket C. BOSTANCI	Office Hours Schedule	Monday 11.00-11.50 Wednesday 11.00 - 11.50 Friday 11.00-11.50
E-mail	sbostanci@eul.edu.tr		
Phone	2523	Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	
Catalogue description	This course provides an introductory overview of the various construction materials. In addition, comparative knowledge of materials physical and chemical properties, long-term performance and associated applications are also revealed in this course.		
Course Objectives	To teach students properties and uses of various construction materials including metals, raw materials, concrete constituents, polymers, bituminuos materials, clay bricks, stones, glass and stones.		

Learning Outcomes	
1	To know the physical and chemical properties of raw materials used in the production of construction materials
2	To know the engineering properties of raw materials, metals, polymers, glass and insulation materials necessary for buildings
3	To know the cement types, aggregate physical and chemical properties and design concrete for various applications

Program Outcomes		
PO1: 5 PO2: 4 PO3: 1 PO4: 1 PO5: 5 PO6a: 5 PO6b: 1	PO7: 1 PO8: 5 PO9: 5 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.

Textbooks and/or References	
1	Valery V. Vasiliev, Evgeny V. Morozov, Advanced Mechanics of Composite Materials and Structures', Published by Elsevier, 2018
2	N.V. Nayak, A.K. Jain 'Handbook on Advanced Concrete Technology', First Edition, 2012
3	Neville, A.M, "Properties of Concrete", Fourth Ed., Prentice-Hall, 2012
4	Mehta, P.K., and Monteiro, P.J.M., Microstructure, Properties and Materials, 2nd edition, 239 pp, 2017

WEEK	Date	TOPICS	Reference No - Section
Week 1	24/09/2025	Introduction to Course	1:1.1;1.3
Week 2	01/10/2025	Metals	1:2.1;2.5
Week 3	08/10/2025	Gypsum - Lime	2:1.4
Week 4	15/10/2025	Cements	1:3.1;3.2,3.3,3.7
Week 5	22/10/2025	Cements	1:3.1;3.2,3.3,3.7
Week 6	29/10/2025	Aggregates	1:3.1;3.2,3.3,3.9
Week 7	05/11/2025	Aggregates	1:3.1;3.2,3.3,3.9
Week 8	08-16/11/2025	Midterm Examination Week	-
Week 9	19/11/2025	Concrete	2:2.6
Week 10	26/11/2025	Concrete	2:2.6
Week 11	03/12/2025	Concrete Mix Design	1:6.8
Week 12	10/12/2025	Polymers & Bituminous Materials	1:6.8
Week 13	17/12/2025	Clay Bricks & Building Stones and Masonry	1:4.1;4.2;4.3;4.4;4.5 & 1:5.1;5.2;5.3;5.4;5.5
Week 14	24/12/2025	Glass / Timber	1:10.1;10.2;10.3;10.5
Week 15	31/12/2025	Glass / Timber	1:10.1;10.2;10.3;10.5
Week 16	03-11/01/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	03-11/01/2026	50	50
Semester Evaluation			50	100
Midterm(s)	1	08-16/11/2025	30	60
Quiz(zes)				
Project(s)	1	TBA	20	40
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: English

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework			
TLH self study	14	3	42	Project	1	15	15
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1
ME preparation self study	1	10	10	FE preparation self study	1	10	10
						TOTAL :	121
						Recommended ECTS Credit (Total Hours / 30) :	4

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN429	Admixtures for Concrete	Elective	3	0	0	3	4	Tuesday 09.00-11.50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Assoc. Prof. Dr. Şevket C. Bostancı	Office Hours Schedule	Tuesday 14.00-14.50 Wednesday 14.00 - 14.50 Thursday 11.00-11.50
E-mail	sbostanci@eul.edu.tr		
Phone		Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	Definition of term an admixture for concrete. Chemical and mineral admixtures. Performance of air-entraining admixtures, high range water-reducing, retarding, and accelerating admixtures. Natural pozzolans, fly ash, silica fume and ground granulated blast furnace slag. Behavior of fresh and hardened concrete modified with different admixtures.
Course Objectives	To teach the students the mineral and chemical admixtures for concrete

Learning outcomes	
1	To be able to uderstand the use of chemical admixtures in conrete
2	Recognize the mineral admixtures for concrete
3	To be able to understand the effect of chemical and mineral admixtures on fresh and hardened concrete
4	An ability of effective use of mineral and chemical admixtures in the mix design calculations

Program Outcomes			
PO1: 5	PO7: 1	(1) Strongly disagree;
PO2: 3	PO8: 1	(2) Disagree;
PO3: 4	PO9: 1	(3) Neither agree nor disagree;
PO4: 1	PO10a: 1	(4) Agree;
PO5: 5	PO10b: 1	(5) Strongly agree.
PO6a: 4	PO11: 1	
PO6b: 1		

Textbooks and/or References	
1.	Tokyay, M. (2016) Cement and Concrete Mineral Admixtures. CRC Press, Taylor & Francis, Boca Raton.
2.	Bapat, J.D. (2013) Mineral Admixtures in Cement and Concrete. CRC Press, Taylor & Francis, Boca Raton.
3.	Ramachandran, V.S. (1997) Concrete Admixtures Handbook. 2nd Ed., Noyes Publication, New Jersey, USA.
4	Building Research Establishment Mix Design Document
5	Scientific articles (Elsevier)

WEEK	Date	TOPICS	Reference No - Section
Week 1	03/02/2026	Introduction to Concrete Admixtures and Classifications	1: 1;
Week 2	10/02/2026	Standards, Specifications and Terminology	1: 13; 3: 6
Week 3	17/02/2026	Air-entraining and Antifreezing Admixtures	2: 11; 3: 8
Week 4	24/02/2026	Fundamental Mechanisms of Chemical Admixtures	1: 8,9,10,11, ; 3.3;
Week 5	03/03/2026	Water-Reducing Admixtures (Plasticizers) and High-range Water-Reducing Admixtures (Superplasticizers)	3: 7;
Week 6	10/03/2026	Set Retarders and Accelerators	1: 3; 2: 1; 3: 5
Week 7	17/03/2026	Mineral Admixtures - Fly Ash	1: 3; 2: 1; 3: 10
Week 8	24/03/2026	Mineral Admixtures - GGBS	1: 4; 2: 2; 3: 10
Week 9	31/03/2026	Mineral Admixtures-Silica fume	1: 5; 2: 3; 3: 10
Week 10	04-12/04/2026	Midterm Exam week	-
Week 11	14/04/2026	Mineral Admixtures-Marble dust, Metakaolin, Rice Husk Ash	1: 7; 2: 4,5,6,7,8; 3: 10
Week 12	21/04/2026	New Mineral Admixtures	2: 8;
Week 13	28/04/2026	Natural Pozzolans	1: 7; 1: 2;
Week 14	05/05/2026	Polymer-Based Admixtures and Latex-Modified Concrete	2: 8; 3: 9;
Week 15	12/05/2026	Sustainability and Advanced Admixture Technologies	-
Week 16	16-25/05/2026	FINAL EXAMINATION WEEK	-

Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
	Final Exam	1	16-25/05/2026	40	
	Semester Evaluation				50
	Mid-term Exam	1	04-12/04/2026	30	50
	Quiz(zes)				
	Project(s)	TBA	TBA	30	50
	Homework(s)				
	Laboratory				
	Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework			
TLH self study	14	5	70	Project	2	10	20.0
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1.0
ME preparation self study	1	10	10	FE preparation self study	1	10	10.0
					TOTAL :	154	

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 - Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CVEN465	Construction Project Scheduling	Elective	3	0	-	3	4	Thursday 09:00 - 11:50 AS113
Prerequisite	-	Prerequisite to				-		

Course Lecturer	İbrahim Bay	Office Hours Schedule	Tuesday 13:00 - 13:50
E-mail	ibay@eul.edu.tr		
Phone	+9 0 392 660 2000 (ext: 2509)	Office No	AS301
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office No	-

Catalogue Description	Basic construction project scheduling procedures. Work breakdown structure, critical path method, and scheduling logic. Activity durations, status reports, resource allocation, and control.
Course Objectives	The main purpose of this course is to introduce the concepts used in planning and scheduling of projects in both industrial and construction applications

Learning Outcomes

At the end of this course student will be able to apply;

1. Steps needed to devise a technologically advanced schedule geared toward streamlining the construction process.
2. Calculations needed by project schedulers, particularly related to time management,
3. Precedence networks as a viable solution to scheduling, the main part of project control,
4. The concepts of Dynamic Minimal Lag, a new CPM technique,

Program Outcome Relations

PO1:	2	PO7:	1
PO2:	2	PO8:	3
PO3:	3	PO9:	1
PO4:	2	PO10a:	5
PO5:	1	PO10b:	1
PO6a:	1	PO11:	3
PO6b:	1		

(1) Strongly disagree;
(2) Disagree;
(3) Neither agree, nor disagree;
(4) Agree;
(5) Strongly agree.

Textbooks and/or References

1. Pierce, R.D. Jr, 2013, "*Project Scheduling and Management for Construction* ", Wiley, Canada
2. Lewis, J.P., 2005, "*Planning Scheduling and Control* ", 4th ed., McGraw Hill, the USA

WEEK	Date	TOPICS	Reference No - Section
1	05/02/2026	Project management fundamentals	1.1
2	12/02/2026	Planning and Investigation	1.2
3	19/02/2026	Planning the Project	1.3
4	26/02/2026	Planning the Project	1.3
5	05/03/2026	Scheduling the Project	1.4
6	12/03/2026	Scheduling the Project	1.4
7	19/03/2026	Publishing the Schedule	1.5
8	26/03/2026	Monitoring and Controlling the Project	1.6
9	02/04/2026	Resource Management	1.7
10	09/04/2026	**Mid-Term Exams** (04/04/2026 - 12/04/2026)	
11	16/04/2026	Resource Management	1.7
12	23/04/2026	Line of Balance Scheduling	1.9
13	30/04/2026	Line of Balance Scheduling	1.9
14	07/05/2026	Project Cost Control	1.10
16	14/05/2026	**Final Exams** (16/05/2026 - 25/05/2026)	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	100.0
Midterm(s)	1	TBA	30	50.0
Quiz(zes)				
Project(s)	1	TBA	30	50.0
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* ***

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	= 14*3 = 42
Midterm	1	= 1*1.5 = 1,5
Quiz		
Laboratory		
Atelier		
Field Study		
Other		

Evaluation Tool	Quantity	Student Workload Hours
Applied Hours		
Final	1	= 1*2 = 2
Project	1	= 1*30 = 30
Homework		
Seminar		
Presentation		
Self Study	15	= 15*3= 45

TOTAL = 119.5

Recommended ECTS Credit (Total Hours / 30) : 4

Students presenting either poor interest (<70% attendance) or insufficient data will be graded "FA".
You need to follow the Course Portal at "https://moodle.eul.edu.tr/course/view.php?id=12176"

EUROPEAN UNIVERSITY *of* LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Spring Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE 444	*Highway Materials*	*T. Elective*	*3*	*0*	-	*3*	4	*Friday 09:00-12:00 AS 116* *Saturday14:00-17.00 (*)AS 116*
Prerequisite	-	**Prerequisite to**				-		

Course Lecturer	*cumhur aydın*	**Office Hours Schedule**	*Friday (12.00-13.00)*
E-mail	caydin@eul.edu.tr		
Phone	*+9 0 392 660 2000*	**Office No**	
Teaching Assistant(s)	-	**Phone**	-
E-mail	-	**Office No**	-

Catalogue Description	Properties, performance, and standard test methods of the basic materials used in highway engineering (asphalt, aggregates, binders, and concrete), the selection criteria, quality control processes, and performance evaluations of materials used in road construction.
Course Objectives	*The main purpose of this course is to introduce the concepts of highway materials, asphalt and aggregates. The physical and chemical characteristics of asphalts will be discussed. Mineral aggregates classification and mechanical characteristics of aggregates will be evaluated. Asphalt and aggregates mixtures, surface treatmentsane highways will be presented. Marshall method of mix design and physical of asphaltic mixtures are evaluated.*

Learning Outcomes

At the end of this course student will be able to:

1	understand the concept and general properties of bituminouus materials.
2	understand and analyze asphalt characteristics
3	understand how to classify and use mineral aggregates.
4	evaluate how to make mixture design for surface treatments.
5	evaluate Marshall Method of mix design for asphaltic mixtures

Program Outcomes

PO1	5	***PO7***	1	**(1) Strongly disagree;**
PO2	1	***PO8***	1	**(2) Disagree;**
PO3	5	***PO9***	1	**(3) Neither agree nor disagree;**
PO4	1	***PO10a***	1	**(4) Agree;**
PO5	1	***PO10b***	1	**(5) Strongly agree.**
PO6a	3	***PO11***	1	
PO6b	1			

Textbooks and/or References

1	*Highway Materials (METU Lecture Notes)*
2	Transportation Engineering &Planning, C.S. Papacostas,P.D.Prevedouros.

WEEK	Date	TOPICS	Reference No - Section
1	06/02/2026	Introduction to Bituminous Materials Characteristics	Chapter 1
2	**13/02/2026**	Asphalts, Pysical properties.	Chapter 1,2
3	20/02/2026	Asphalts, Chemical Properties, Emulsions.	Chapter 3
4	**27/02/2026**	Mineral Aggregates	Chapter 3
5	06/03/2026	Mineral Aggregates, classification according to source and size.	Chapter 3
6	**13/03/2026**	Mineral Aggregates, Specific Gravity; Mechanical characteristics	
7	20/03/2026	Religous Holiday	
8	27/03/2026	Mixtures, Surface Treatment	
9	03/04/2026	MID TERM WEEK	Chapter 5
10	10/04/2026	MID TERM WEEK	Chapter 5
11	**17/04/2026**	Mixtures, Asphalt Concrete Properties	
12	24/04/2026	Mixtures: Marshall Design Method, Test and evaluation.	Chapter 6
13	01/05/2026	Physical characteristics of asphaltic mixtures	Chapter 6
14	**08/05/2026**	Physical Characteristics of asphaltic mixtures	Chapter 6
15	**15/05/2026**	Evaluation	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	TBA	40	
Semester Evaluation			60	
Midterm(s)			30	
Quiz(zes)				
Project(s)	1	TBA	15	
Homework(s)	1	TBA	15	25.0
Laboratory				
Other				

**** Lifelong Learning Programme (LLP) ****

Language of Instruction: *English*

Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours
Theoretical Hours	14	= 14*3 = 42	Midterm	1	= 1*1 = 1
Project (HW)	2	= 2*1.5 = 3	Final	1	= 1*1 = 1
Quiz			Project		
Laboratory			Homework	1	= 1*10 = 10
Atelier			Seminar		
Field Study			Presentation		
Other			Self Study	14	= 14*5= 70
			TOTAL =		127.0
			Recommended ECTS Credit (Total Hours / 30) :		4

Students presenting either poor interest (<70% attendance) or insufficient data will be graded "FA".

(*) The course will be given at every two weeks on Fridays and Saturdays. Exact course weeks will be announced through moodle and teams platforms.

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

"Civil Engineering"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE471	Advanced Concrete Technology	Elective	3	0	0	3	4	Thursday 14.00-16.50
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Assoc. Prof. Dr. Şevket C. Bostancı	Office Hours Schedule	Tuesday 12.00-12.50 Wednesday 12.00 - 11.50 Thursday 12.00-12.50
E-mail	sbostanci@eul.edu.tr		
Phone	2523	Office / Room No	AS318
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	-

Catalogue Description	Hydration of Portland cement; chemistry, compound interactions, hydration products and microstructure, volume changes during hydration. Admixtures for concrete and their effects on concrete properties. Properties of fresh concrete. Properties of hardened concrete. Concrete mix design methods. Curing methods of concrete. Special types of concrete. Durability of concrete. Concreting in special applications.
Course Objectives	To teach the students the importances and recent developments of concrete technology
Learning outcomes	1 To be able to understand of the concrete making materials
	2 To be able to understand the importance of fresh and hardened properties on concrete performance
	3 To acknowledge various concrete applications and technologies

Program Outcomes			
	PO1: 3	**PO7: 1**	**(1) Strongly disagree;**
	PO2: 1	**PO8: 3**	**(2) Disagree;**
	PO3: 1	**PO9: 4**	**(3) Neither agree nor disagree;**
	PO4: 1	**PO10a: 1**	**(4) Agree;**
	PO5: 1	**PO10b: 1**	**(5) Strongly agree.**
	PO6a: 4	**PO11: 3**	
	PO6b: 1		

Textbooks and/or References	
1.	Li, Z. (2011) Advanced Concrete Technology. John Wiley & Sons, New Jersey.
2.	Newman, J. & Choo, B.S. (2003) Advanced Concrete Technology. Butterwoth-Heinemann, Oxford.
3.	Mineral Products Association, The Concrete Centre - Concrete Series

WEEK	Date	TOPICS	Reference No - Section
Week 1	05/02/2026	Introduction to Advanced Concrete Technology	1: 1;
Week 2	12/02/2026	Materials for Making Concrete	1: 2;
Week 3	19/02/2026	Fresh and Hardened Properties	1: 3; 1: 5;
Week 4	26/02/2026	Durability of Concrete	2: 18; 2: 25;
Week 5	05/03/2026	Ready-mixed and Pre-cast Concrete Production	1: 6; 2: 2
Week 6	12/03/2026	Lightweight Concrete	1: 6; 2: 3
Week 7	19/03/2026	High Strength Concrete	-
Week 8	26/03/2026	Concrete in Aggressive Environments	-
Week 9	02/04/2026	Sustainable and Low-Carbon Concrete	1: 6; 2: 3
Week 10	04-12/04/2026	Mid-term Exam	1: 6; 2: 6
Week 11	16/04/2026	Advanced and Special Concretes (Self-compacting Concrete)	2: 8;
Week 12	23/04/2026	Advanced and Special Concretes (Fibre Reinforced Concrete)	2: 4; 3
Week 13	30/04/2026	Shrinkage, Creep, and Volume Stability	2: 5; 3
Week 14	07/05/2026	Emerging Trends and Case Studies	2: 11; 3
Week 15	14/05/2026	Emerging Trends and Case Studies	1: 8;
Week 16	16-25/05/2026	**FINAL EXAMINATION WEEK**	-

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1	16-25/05/2026	**50**	
Semester Evaluation				100
Mid-term Exam	1	04-12/04/2026	**30**	60
Quiz(zes)				
Project(s)	1	TBA	**20**	40
Homework(s)				
Laboratory				
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	14	3	42	Homework			
TLH self study	14	3	42	Project	1	10	10.0
Quiz (Q)				Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2.0
ME preparation self study	1	10	10	FE preparation self study	1	15	15.0
				TOTAL :		123.0	
				Recommended ECTS Credit (Total Hours / 30) :		**4**	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"

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SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours T	A	L	Credits	ECTS	Weekly Time Schedule
CE 442	ADVANCED REINFORCED CONCRETE DESIGN		3	0		3	4	Saturday 10:00-13:00
Prerequisite	-	Prerequisite to				-		

Course Lecturer	Asst. Prof. Dr. Ali Sadeghpour	Office Hours Schedule	
E-mail	asadeghpour-lau@eul.edu.tr		
Phone		Office / Room No	AS302
Teaching Assistant(s)	-	Phone	-
E-mail	-	Office / Room No	

Catalogue description	Behavior and strength of members under combined shear and torsion design reinforced concrete beam for shear, torsion and bending. Serviceability of beams and one-way slabs deflection behavior and control. Structural systems framed, wall and combined structures, flat slabs and plates. Seismic design principles. Modeling and design with SAP 2000 Educational. Advanced methods of construction prefabricated and prestressed concrete
Course Objectives	The aim of this course is to develop an understanding on the behavior of reinforced concrete elements under various loading and environmental conditions, introduce the standard approach and the methods of reinforced concrete analysis and design.

Learning Outcomes	
1	Analyze and design reinforced concrete short columns
2	Design reinforced concrete one-way and two-way slabs
3	Apply the principles, procedures and current seismic code requirements

Program Outcomes			
PO1: 4 PO2: 4 PO3: 4 PO4: 5 PO5: 1 PO6a: 1 PO6b: 1	PO7: 1 PO8: 1 PO9: 1 PO10a: 1 PO10b: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.	

Textbooks and/or References	
1	D. Darwin, C. W. Dolan, and A. H. Nilson, Design of Concrete Structures, 15th Edition, McGraw Hill, 2016
2	James K. Wight, Reinforced concrete Mechanics and design, 7th Edition
3	Building Code Requirements for Structural Concrete (ACI 318M-22)
4	Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE 7-22)

WEEK	Date	TOPICS	Reference No - Section
Week 1	07/02/2026	General principles	1.1; 2.1
Week 2	14/02/2026	Bond, anchorage, and development length	1.8; 3.25.4
Week 3	21/02/2026	Serviceability of RC frames	1.10; 3.24
Week 4	28/02/2026	Columns Classification	2.12; 3.10
Week 5	07/03/2026	Short columns	1.11; 2.12
Week 6	14/03/2026	Concept of Interaction Diagram	2.12; 3.10.3
Week 7	21/03/2026	Column under an Axial Force and Biaxial Moments	1.11; 4.4
Week 8	28/03/2026	Column under an Axial Force and Biaxial Moments	1.13; 3.8
Week 9	04/04/2026	Column under an Axial Force and Biaxial Moments	1.13; 3.8
Week 10	4-12/04/2026	Midterm Exam	
Week 12	25/04/2026	Analysis and design of one-way slabs	1.13; 2.9
Week 13	02/05/2026	Analysis and design of two-way slabs	1.14; 3.8.11
Week 14	09/05/2026	Analysis and design of two-way slabs	2.9; 3.8.11
Week 15	16/05/2026	Analysis and design of two-way slabs	2.9; 3.8.11
Week 16	16-25/05/2026	Final Exam	

Evaluation Tools

Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Final Exam	1		40	40
Semester Evaluation				100
Midterm(s)	1		40	40
Quiz(zes)	2	TBA	10	10
Project(s)	1	TBA	10	10
Other				

*** *Lifelong Learning Programme (LLP)* *** Language of Instruction: **English**

Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total
Theoretical lecturing hours (TLH)	12	3	36	Homework			
TLH self study	15	3	45	Project	1	5	5
Quiz (Q)	2	3	6	Presentation			
Q preparation self study				Seminar			
Laboratory (L)				Tutorial			
L preparation work							
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2
ME preparation self study	1	3	3	FE preparation self study	1	20	20
						TOTAL :	119
						Recommended ECTS Credit (Total Hours / 30) :	4